

SAMSUNG

SYSTEM AIR CONDITIONER

Model : JH035EAV Series
JH026EAV Series
UH035EAV Series
UH026EAV Series
Model Code : JH035EAV1
JH026EAV1
UH035EAV1
UH026EAV1

SERVICE *Manual*

AIR CONDITIONER



JH026EAV1
JH035EAV1



UH026EAV1
UH035EAV1

CONTENTS

1. Precautions
2. Product Specifications
3. Disassembly and Reassembly
4. Troubleshooting
5. Exploded Views and Parts List
6. PCB Diagram and Parts List
7. Wiring Diagram
8. Schematic Diagram
9. Reference Sheet

Refer to the service manual in the GSPN(see the rear cover) for the more information.

Contents

1. Precautions	1-1
1-1 Precautions for the Service	1-1
1-2 Precautions for the Static Electricity and PL	1-1
1-3 Precautions for the Safety	1-1
2. Product Specifications	2-1
2-1 The Feature of Product	2-1
2-2 Specifications of Product	2-2
2-3 Accessory and Option Specifications	2-3
3. Disassembly and Reassembly	3-1
3-1 Indoor Unit	3-2
3-2 Outdoor Unit	3-7
4. Troubleshooting	4-1
4-1 Setting Option Setup Method	4-1
4-2 Things to check before diagnosis	4-4
4-2-1 Display Error Mode	4-4
4-2-2 Outdoor Unit	4-6
4-2-3 Wired remote controller	4-9
4-3 Fault Diagnosis by Symptom	4-10
4-3-1 Indoor temperature sensor (open/short)	4-12
4-3-2 Indoor Heat Exchange temperature sensor (open/short)	4-13
4-3-3 Indoor Fan error	4-14
4-3-4 Communication error after completion of tracking	4-15
4-3-5 EEPROM circuit Part defect	4-16
4-3-6 MPI (micom plasmalon error)	4-17
4-3-7 When outdoor units cannot be turned on	4-18
4-3-8 DC link and over/lower voltage error	4-19
4-3-9 IPM and over current error	4-20
4-3-10 Compressor starting error, compressor locking error, compressor revolving error	4-22
4-3-11 Outdoor temperature sensor error	4-23
4-3-12 Emission temperature sensor error	4-24
4-3-13 Cond temperature sensor error	4-25
4-3-14 Communication error between indoor/outdoor units (1min.)	4-26
4-3-15 Outdoor fan error	4-27
4-3-16 Discharge current error/ PFC over-current error	4-29
4-3-17 Gas leakage error	4-30
4-3-18 Other	4-31

Contents

5. Exploded Views and Parts List	5-1
5-1 Indoor Unit	5-1
5-2 Outdoor Unit	5-3
5-3 Ass'y Control Out	5-5
6. PCB Diagram and Parts List	6-1
6-1 PCB Diagram	6-1
6-1-1 Indoor Unit	6-1
6-1-2 Display PCB	6-2
6-1-3 Damper PBA.....	6-2
6-1-4 Outdoor Unit	6-3
6-2 Parts List	6-6
6-2-1 Indoor Unit	6-7
6-2-2 Outdoor Unit	6-14
7. Wiring Diagram	7-1
8. Schematic Diagram	8-1
8-1 Indoor Unit	8-1
8-1-1 MAIN PCB	8-1
8-1-2 Damper	8-2
8-1-3 Pcb Display	8-3
8-2 Outdoor Unit	8-4
9. Reference Sheet	9-1
9-1 Index for Model Name	9-1
9-2 Refrigerating Cycle Diagram	9-2
9-3 Pressure Graph	9-3

1. Precautions

1-1 Precautions for the Service

- **Use the standard parts when replacing the electric parts.**
 - Confirm the model name, rated voltage, rated current of the electric parts.
- **Repair the disconnection of HARNESS securely when repairing the break down.**
 - If there is any connection error, it causes an abnormal noise and incorrect operation.
- **In case that you assemble or disassemble the products with laying it on the side, do work on the work cloth.**
 - If not, the exterior of products can be scratched.
- **Remove dust and foreign materials from harness, connection part, and inspection part thoroughly when repairing the break down.**
 - It protects the danger of fire such as tracking and short.
- **Tighten tightly the service valve of outdoor unit and the cap of charging valve with a monkey spanner.**
- **Check the assembly status of parts after repairing the break down.**
 - It should be same as the status before repairing.

1-2 Precautions for the Static Electricity and PL

- **As the PCB power terminal has a weakness for the static electricity, pay attention to it during the repair and measurement.**
 - Work with insulation gloves during the repair and measurement of PCB.
- **Check the distance between the product and the other electronic appliances such as TV, video, and audio.**
It should be over 2m.
 - If not, it causes a bad picture quality or a noise.
- **Repairing the products by consumer should be strictly prohibited.**
 - There is a danger of electric shock or fire due to incorrect disassembly.

1-3 Precautions for the Safety

- **Do not pull any electric wires and do not touch an auxiliary power switch with a wet hand.**
 - There is a danger of electric shock or fire.
- **In case any wire or power plug has been damaged, replace it to eliminate any possible danger.**
- **Do not bend the power cord by force and do not put any heavy object on the power cord.**
 - There is a danger of electric shock or fire.
- **Do not use multi socket.**
 - There is a danger of electric shock or fire.
- **Ground the product if necessary.**
 - Be sure to ground the product if there is any danger of electric leakage due to water or moisture.
- **Be sure to turn off the auxiliary power switch or pull out the power plug during replacement or repair of electric parts.**
 - There is a danger of electric shock.
- **In case the product will not be in use for a long time, the battery of remote control should be kept separately.**
 - Leakage of inside fluid can cause break down of remote control.

2. Product Specifications

2-1 The Feature of Product

■ What is a Console type Air Conditioner?

Floor standing type Air Conditioner, Powerful on floor heating & cooling.



■ MPI Zone (Air cleaning solution)

Samsung's Micro Plasma Ion Zone is a technology that generates activated hydrogen and oxygen ions, which exterminates viruses and allergy-causing microbes in the air by neutralizing them and turning into water.



■ Special Filter

Allergy Filter, Deodorizing Filter and Anti-bacteria

Filter will make air so pure.



■ Flexible Pipe Installation

Anywhere it can be installed by 6way piping.



■ Elegance Design

Slim Design(199mm), Clean Front Panel, Luxurious Wide Display

Mirror & Lamp

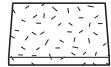


2-2 The Specifications of Product

Item		Model Name				
Indoor Unit		JH026EAV 1		JH035EAV 1		
Outdoor Unit		UH026EAV1		UH035EAV1		
Remote Control						
Power specifications			Single phase, 220~240V, 50Hz			
Size	Indoor	WxHxD	mm	720X620X199		
	Outdoor	WxHxD	mm	790X548X285		
Weight	Indoor Unit		kg	15.2		
	Outdoor Unit		kg	35.5		
Capacity	Cooling(Min/Nor/Max)		w	980/2,600/3,500		
	Heating(Min/Nor/Max)		w	950/3,500/4,600		
Power consumption	Cooling(Min/Nor/Max)		w	230/670/1,040		
	Heating(Min/Nor/Max)		w	210/970/1,250		
Running current	Cooling(Min/Nor/Max)		A	1.5/3.3/4.9		
	Heating(Min/Nor/Max)		A	1.4/4.7/6.2		
Amount of basic refrigerant(NET)			g	950		
Connecting pipes			High pressure side	1/4"		
			Low pressure side	3/8"		
Additional amount of refrigerant(per 1m)			g	chargeless		
Basic pipe length			m	5		
Max. allowable pipe length			m	20		
Max. allowable head drop for outside pipe			m	15		
Option code			087777-1380B6	087777-1580D8		

2-3 Accessory and Option Specifications

■ Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	User's manual	DB98-29147A	1	
	Installation manual	DB98-29148A	1	
	Insulation install out	B62-05580V	1	
	Insulation Install SVC	DB62-05691C	1	Basic/ Indoor
	Cable-tie	DB65-10088C	4	
	Wireless remote control	DB93-06280F	1	
	Battery	DB47-90024A	2	

■ Wired Remote Controller (option resource)

Item	Descriptions	Code-No.	Q'TY	Remark
	Wired remote controller	DB93-01766H	1	
	Cable-tie	DB65-10088B	2	
	Cable clamp	DB65-10074E	5	
	M4x16 tapped screw	6002-000474	7	
	Indoor unit power drawing cable	DB39-00221A	1	
	Communication cable of the wired remote controller	DB39-00933A	1	
	Wire joint	DB39-90020A	1	
	User manual	DB98-15731A	1	
	Installation manual	DB98-15770A	1	

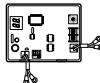
■ Centralized Controller

Item	Descriptions	Code-No.	Q'TY	Remark
	Centralized controller	DB93-03425C	1	
	Cable-tie	DB65-10088B	2	
	Cable clamp	DB65-10074E	5	
	M4x16 tapped screw	6002-000474	7	
	User manual	DB98-12721A	1	
	Installation manual	DB98-25773A	1	

■ Function Controller

Item	Descriptions	Code-No.	Q'TY	Remark
	Function controller	DB93-00757G	1	
	Cable-tie	DB65-10088B	2	
	Cable clamp	DB65-10074E	6	
	M4x16 tapped screw	6002-000474	7	
	User manual	DB98-27317A	1	
	Installation manual	DB98-27315A	1	

■ Transmitter

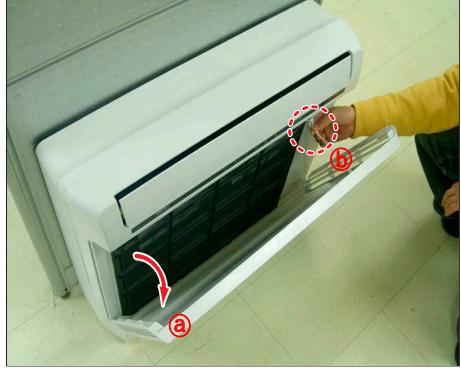
Item	Descriptions	Code-No.	Q'TY	Remark
	Transmitter	DB93-03374C	1	
	Transmitter power cable	DB39-00378D	1	
	Transmitter communication cable	DB39-00253D	1	

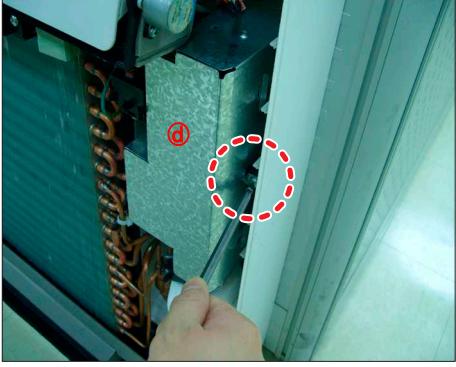
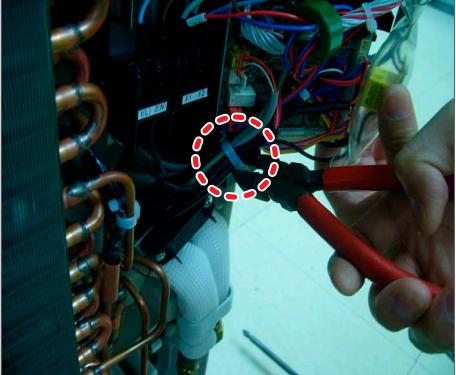
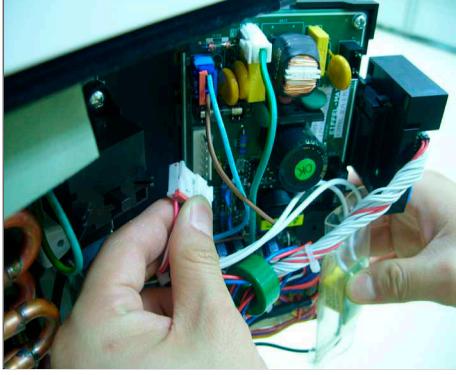
3. Disassembly and Reassembly

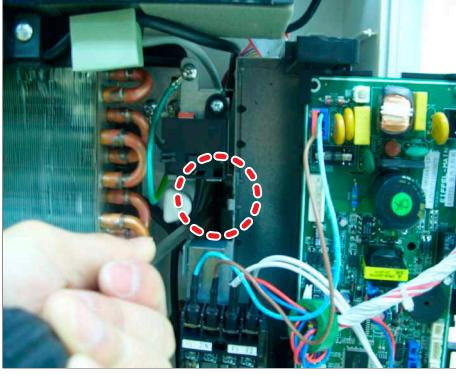
■ Necessary Tools

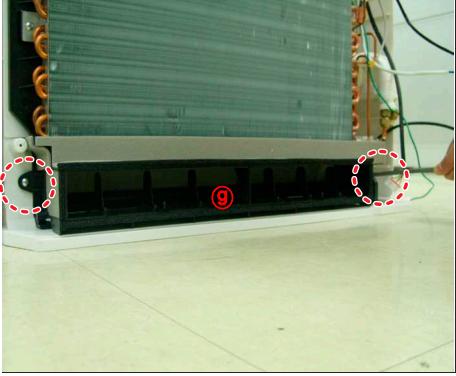
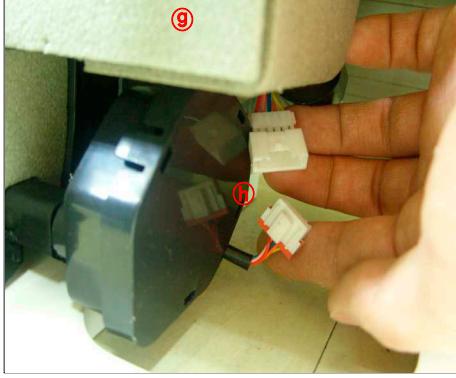
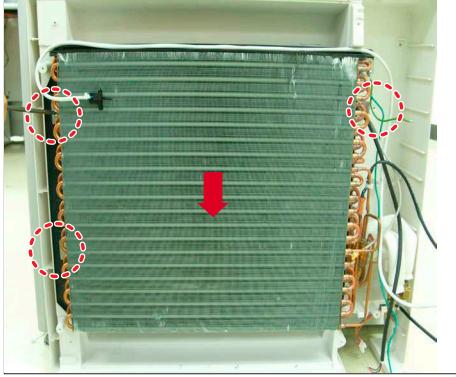
Item	Remark
+SCREW DRIVER	
MONKEY SPANNER	

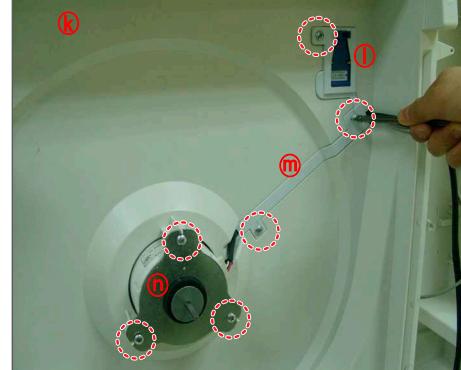
3-1 Indoor Unit

No	Parts	Procedure	Remark
1	Cabi Parts	<p>1) Open the Panel Front(a). Remove the Clip Wire(b).</p> <p>2) Release 4 screws on the Body Front(c).</p> <p>3) Open the Body Front(c) by pulling from bottom of the part.</p>	  

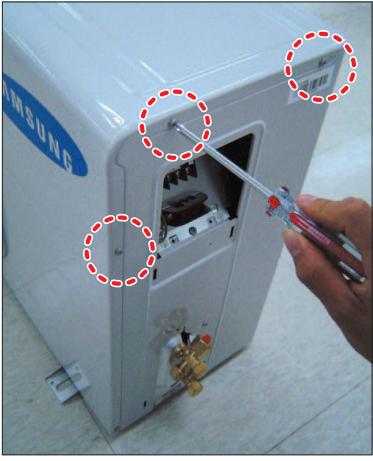
No	Parts	Procedure	Remark
2	Electrical Parts	<p>1) Open the cover of Control Box④).</p> <p>2) Pull the PBA out along the slide guide.</p> <p>3) Cut the Cable tie.</p> <p>4) Pull all wires out from the PBA.</p>	   

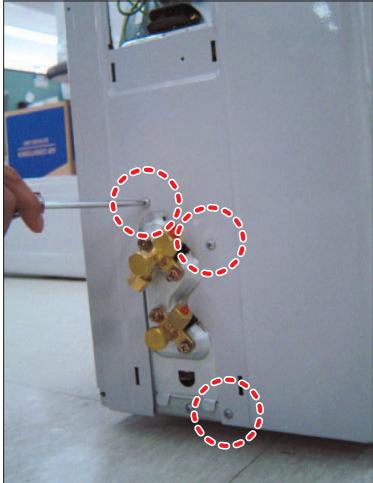
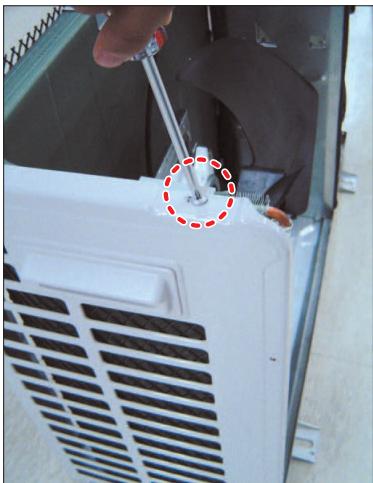
No	Parts	Procedure	Remark
		<p>5) Release the 2 screws. (one is top of the C-Box, the other is left of it)</p> <p>6) Release 2 Hold Wires and pull all wires out from it .</p>	 
3	Blowing & Evap Part	<p>1) Pull the Bracket Pipe(e)out.</p> <p>2) Release 2 screws and pull Top Discharge Kit(f) out.</p>	 

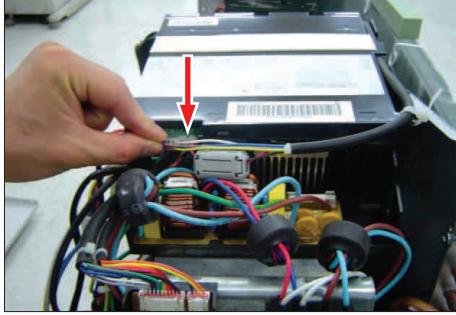
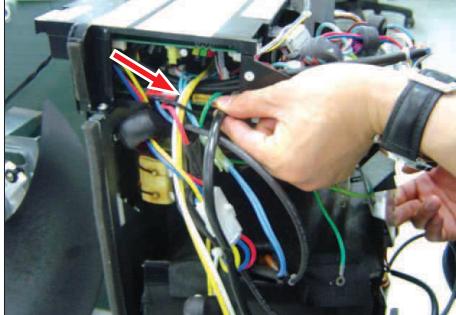
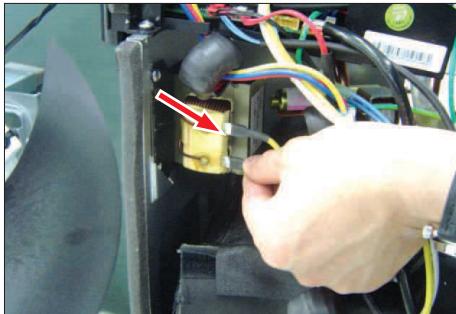
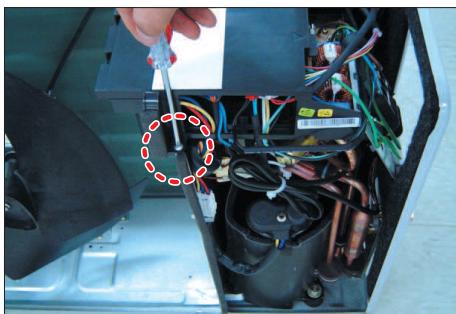
No	Parts	Procedure	Remark
		3) Release 2 screws and pull Bottom Discharge Kit(9) out.	
		4) Disconnect the Step Motor wire(h) from the connect wire . This part is right side of the Bottom Discharge Kit(9).	
		5) Pull Bottom Discharge Kit(9) Out from the bottom of it.	
		6) Release 3 screws and pull the Evap out from top to bottom direction.	

No	Parts	Procedure	Remark
4	Fan Part	<p>1) Release 1 screw and pull the Bell Mouth (❶) out.</p> <p>2) Release the Nut and pull Fan Turbo(❶)out.</p> <p>3) Release 6 screw on the Body Back(❷). Pull the Cap MPI(❸), Bracket Wire(❹) and Bracket Motor(❺) out.</p> <p>4) Pull the MPI Kit(❻) and Motor(❽) out from the Body Back(❷).</p>	   

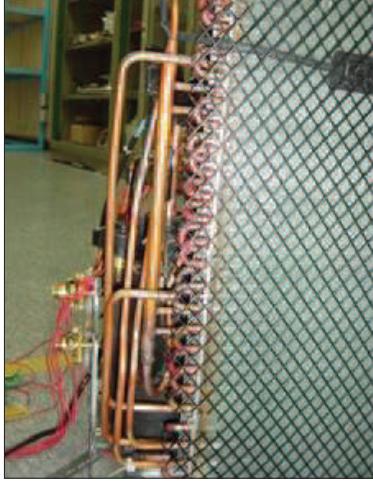
3-2 Outdoor Unit

No	Parts	Procedure	Remark
1	Common Work	<p>⚠ Before disassembly, please make sure to shut off the power.</p> <p>1) Separate fixing screw in the Cover Side. (Use +Screw Driver.)</p> <p>2) Undo the 4 fixing screws on the left and right cabinet Side Edges then undo the screws on the lower front to separate the Cabinet Front. (Use +Screw Driver.)</p> <p>3) Separate the Cabinet Front as shown on the right picture.</p> <p>4) Undo fixing screw to remove Plate Control Out on the Cabinet Side RH. (Use +Screw Driver.)</p>	   

No	Parts	Procedure	Remark
		<p>5) Undo 2 fixing screws on the backside of the Cabinet Side RH. (Use +Screw Driver.)</p> <p>6) Undo 3 fixing screws to assemble Bracket Valve on the Cabinet Side RH. (Use +Screw Driver.)</p> <p>7) Undo 2 fixing screws on the Cabinet Side LF. (Use +Screw Driver.)</p>	  

No	Parts	Procedure	Remark
2	Ass'y Control Out	<ol style="list-style-type: none"> 1) Separate the Motor wire from the PCB of the Ass'y Control Out. 2) Separate several Connectors from the PCB of the Ass'y Control Out. 3) Separate 2 Connect Wires from the Reactor. 4) Undo a fixing screw to assemble the Ass'y Control Out on the Partition. (Use +Screw Driver.) 	   

No	Parts	Procedure	Remark
3	Fan & Motor	<ol style="list-style-type: none"> 1) Release refrigerant first. 2) Undo the fixing screw. (Use +Screw Driver.) 3) Separate the induction and outlet pipes with a Welding Torch. (Use Monkey Spanner.) 4) Separate the Fan and Motor. 	
4	Heat Exchanger	<ol style="list-style-type: none"> 1) Undo 2 fixing screws. (Use +Screw Driver.) 2) Separate the induction and outlet pipes with a Welding Torch. 3) Separate the Heat Exchanger. <p>⚠ Please wear gloves when working as there is a possibility of cutting your hand.</p>	
5	Ass'y Valve 4 way & Ass'y Valve EEV	<ol style="list-style-type: none"> 1) Undo 4 fixing bolts to assemble a Valve Service on the Bracket Valve as shown in the right picture. (Use Monkey Spanner.) <p>⚠ When separating Compressor, Heat Exchanger and pipes please ensure that Compressor is completely free from any remaining refrigerant then separate all pipes with welding torch.</p> <p>□ Ass'y Valve 4 Way</p> <ol style="list-style-type: none"> 1) Separate 3 welded parts. 	 

No	Parts	Procedure	Remark
		<p><input type="checkbox"/> Ass'y Valve EEV</p> <p>1) Separate 1 welded parts.</p>	 
6	Compressor	<p>1) Undo nuts on the Terminal Cover.</p> <p>2) Separate the Terminal Cover and then Connect Wires from the Compressor.</p> <p>3) Separate the Felt Comp Sound.</p> <p>4) Undo 3 bolts on the flow of the Compressor as shown in the right-hand picture. (Use Monkey Spanner.)</p>	

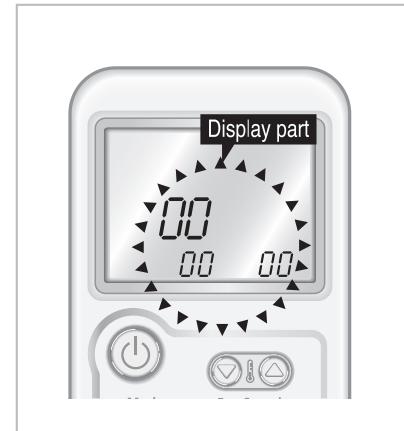
4. Troubleshooting

4-1 Setting Option Setup Method

ex) Option No.: 0 127777-1752 1d

Step 1 : Enter the Option Setup mode.

- 1st Take out the batteries of remote control.
- 2nd Press the temperature  button simultaneously and insert the battery again.
- 3rd Make sure the remote control display shown as 

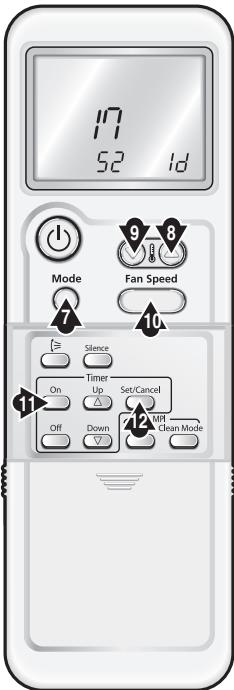


Step 2 : Enter the Option Setup mode and select your option according to the following procedure.

- 1**
The default value is 
Otherwise, push the  button to 
Every time you push the button, the display panel reads  or  repeatedly.
- 2**
Push the  button to set the display panel to 
Every time you push the button, the display panel reads  \rightarrow  \rightarrow 
 \rightarrow  \rightarrow ...  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  repeatedly.
- 3**
Push the  button to set the display panel to 
Every time you push the button, the display panel reads  \rightarrow  \rightarrow 
 \rightarrow  \rightarrow ...  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  repeatedly.
- 4**
Push the  button to set the display panel to 
Every time you push the button, the display panel reads  \rightarrow  \rightarrow 
 \rightarrow  \rightarrow ...  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  repeatedly.
- 5**
Push the  button to set the display panel to 
Every time you push the button, the display panel reads  \rightarrow  \rightarrow 
 \rightarrow  \rightarrow ...  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  repeatedly.
- 6**
Push the  button to set the display panel to 
Every time you push the button, the display panel reads  \rightarrow  \rightarrow 
 \rightarrow  \rightarrow ...  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  \rightarrow  repeatedly.

Samsung Electronics

4-1



7
Press  button, then the default value is **10 00**.

8
Push the  button to set the display panel to **5**.
Every time you push the button, the display panel reads **0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F** repeatedly.

9
Push the  button to set the display panel to **2**.
Every time you push the button, the display panel reads **0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F** repeatedly.

10
Push the  button to set the display panel to **1**.
Every time you push the button, the display panel reads **0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F** repeatedly.

11
Push the  button to set the display panel to **d**.
Every time you push the button, the display panel reads **0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F** repeatedly.

12
Push the  button to set the display panel to **3**.
Every time you push the button, the display panel reads **0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F** repeatedly.

* Setting is not required if you must **0** a value which has a **0** default.

Step 3 : Upon completion of the selection, check you made right selections.

Press the Mode Selection key,  to set the display part to **0** and check the display part.

→ The display part shows **27 01 00**.

Press the Mode Selection key,  to set the display part to **1** and check the display part.

→ The display part shows **52 1d**.

Step 4 : Pressing the ON/OFF button ()

When pressing the operation ON/OFF key with the direction of remote control for unit, the sound "Ding" or "Diriring" is heard and the OPERATION ICON() lamp of the display is flickering at the same time, then the input of option is completed.
(If the diriring sound isn't heard, try again pressing the ON/OFF button.)

Step 5 : Unit operation test-run

First, Remove the battery from the remote control.

Second, Re-insert the battery into the remote control.

Third, Press ON/OFF key with the direction of remote control for set.

• Error Mode

1st If all lamps of indoor unit are flickering, Plug out, plug in power plug again and press ON/OFF key to retry.

2nd If the unit is not working properly or all lamps are continuously flickering after setting the option code, see if the correct option code is set up for its model.

■ Option Items

SEGMENT MODEL	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
JH026EAV1	0	8	7	7	7	7	1	3	8	0	B	6
JH035EAV1	0	8	7	7	7	7	1	5	8	0	D	8

4-2 Things to check before diagnosis

- ◆ If an error occurs during the operation, one or more LED flickers and the operation is stopped except the LED.
- ◆ If you re-operate the air conditioner, it operates normally at first, then detect an error again.

4-2-1 Display Error mode

Abnormal conditions	LED lamp display					Remarks	
	White						
Power reset		X	X	X	X		
Error of temperature sensor in the indoor unit (Open/Short)	X	X		X	X		
Error of heat exchanger sensor in the indoor unit		X		X	X		
Error of the outdoor temperature sensor Error of the condenser temperature sensor Error of the discharge temperature sensor		X	X		X		
1. Indoor and outdoor unit time out 2. Abnormal data reception more than 60 packet 3. Indoor unit is not connected 4. Communication error between the outdoor unit Main-Inverter Micom(After 1 minute of Main-Inverter detection)	X	X			X	1. Indoor unit error (Display is unrelated with operation) 2. Outdoor unit error (Display is unrelated with operation)	

● On Flickering X Off

* If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

Display Error mode(Cont.)

Abnormal conditions	LED lamp display					Remarks	
	White						
Communication error between indoor units	X	X					
[Self diagnosis]Power voltage detection between indoor and outdoor unit communication cable [Self diagnosis]Outdoor unit refrigerant leakage(Gas leak) [Self diagnosis]Outdoor fan restriction error [Inverter]Inverter compressor operation failure [Inverter] DC peak error [Inverter]DC Link voltage 150V or less, 410V or more [Inverter] Compressor rotation error [Inverter]Electric current error [Inverter]DC Link sensor error [Inverter]EEPROM READ/WRITE error [Inverter]Inverter zerocrossing error Setting the outdoor unit capacity option error	X	X	X				
Detection of the float switch	X	X		X			
Error of setting option switches for optional accessories	X	X		X			
EEPROM error		X			X		
EEPROM option error							
MPI no feedback Error	X	X	X	X			

● On ○ Flickering X Off

* If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

4-2-2 Outdoor Unit

SUB PCB 7-Segment Display	Content	Measures	Product operation status in case of error	
			Number of Times	Outdoor unit compressor/ outdoor unit fan
<i>E 101</i>	Indoor unit communication error(1min.)	<ul style="list-style-type: none"> Check the communication line for indoor units Check the power supply of the communication phase(DC) 	1 Time	Operation-off
<i>E 102</i>	Communication time-out error(2min.)	<ul style="list-style-type: none"> Check the communication line for indoor units Check the power supply of the communication phase(DC) 	1 Time	Operation-off
<i>E 121</i>	Indoor temperature sensor	<ul style="list-style-type: none"> Check the temp. sensor of the indoor unit room Check the indoor PCB connector 	1 Time	Operation-off
<i>E 122</i>	Indoor unit EVA IN sensor	<ul style="list-style-type: none"> Check the indoor unit drainage pipe sensor Check the indoor PCB connector 	1 Time	Operation-off
<i>E 123</i>	Indoor unit EVA OUT sensor	<ul style="list-style-type: none"> Check the indoor unit drainage pipe sensor Check the indoor PCB connector 	1 Time	Operation-off
<i>E 128</i>	Dismount of indoor unit EVA IN sensor	<ul style="list-style-type: none"> Check the drainage pipe has been dismounted 	1 Time	Operation-off
<i>E 129</i>	Dismount of indoor unit EVA OUT sensor	<ul style="list-style-type: none"> Check the drainage pipe has been dismounted 	1 Time	Operation-off
<i>E 153</i>	Secondary detection of indoor floating switch	<ul style="list-style-type: none"> Check the indoor unit's float sensor Check the indoor PCB connector 	1 Time	Operation-off
<i>E 154</i>	Indoor fan error	<ul style="list-style-type: none"> Check the indoor PCB connector 	1 Time	Operation-off
<i>E 162</i>	Indoor eeprom error	<ul style="list-style-type: none"> Check the EEPROM data Check the indoor's option 	1 Time	Operation-off
<i>E 163</i>	Indoor eeprom option error	<ul style="list-style-type: none"> Check the EEPROM data Check the indoor's option 	1 Time	Operation-off

○:OFF ●:ON ○:BLINK

Outdoor Unit(cont.)

SUB PCB 7-Segment Display	Content	Measures	Product operation status in case of error	
			Number of Times	Outdoor unit compressor/ outdoor unit fan
<i>E201</i>	Indoor unit not connected	• Check the indoor unit connection • Check the indoor unit number(multi only)	1 Time	Operation-off
<i>E202</i>	1min. Time out Comm. (Display Board : Onboard : Indoor ↔ Outdoor)	• Check the indoor unit connection • Check the indoor unit option	1 Time	Operation-off
<i>E203</i>	Abnormal Serial communication(Display Board: Indoor ↔ Outdoor)	-	-	-
		-	-	
<i>E221</i>	Outdoor temp sensor error (Dual/Single)	• Check the connection status of the sensor • Check the sensor location • Check the resistance values of sensor	1 Time	Operation-off
<i>E237</i>	Cond temp sensor error (Dual/Single)	• Check the connection status of the sensor • Check the sensor location • Check the resistance values of sensor	1 Time	Operation-off
<i>E251</i>	Discharge temp sensor error (Dual/Single)	• Check the connection status of the sensor • Check the sensor location • Check the resistance values of sensor	1 Time	Operation-off
<i>E416</i>	Discharge over temperature (Dual/Single)	-	3 Times	Operation-off
<i>E440</i>	Operation condition secession(HEATING)	• Check the operation status of operation mode • Check the temp. sensor	1 Time	Operation-off
<i>E441</i>	Operation condition secession(COOLING)			
<i>E458</i>	Fan error	• Check the input power connection status • Check the connection status between the motor and PCB in outdoor unit • Check the fuse of indoor/outdoor units	1 Time	Operation-off
<i>E461</i>	Comp Starting error	• Check the connection status of the compressor • Check the resistand between different phases in compressor	5 Times	Operation-off
<i>E462</i>	I_Trip error / PFC Over current	• Check the input power • Check the refrigerant is filled • Check the outdoor fan operation normally	3 Times	Operation-off
<i>E464</i>	IPM Over Current(O.C)	• Check the refrigerant is filled • Check the connection status of compressor and if it operates normally • Check for any obstacles around indoor/outdoor units	9 Times	Operation-off

○:OFF ●:ON ○:BLINK

Outdoor Unit(cont.)

SUB PCB 7-Segment Display	Content	Measures	Product operation status in case of error	
			Number of Times	Outdoor unit compressor/ outdoor unit fan
<i>E465</i>	Comp Vlimit error	• Check the connection status of compressor • Check the resistance between different phases in compressor	9 Times	Operation-off
<i>E466</i>	DC-Link voltage under/ over error	• Check the connection of input power	-	Restart(after 3min.)
<i>E467</i>	Comp rotation error	• Check the connection status of the compressor • Check the resistance between different phases in compressor	3 Times	Operation-off
<i>E468</i>	Current sensor error	• Check the PCB operates normally	1 Time	Operation-off
<i>E469</i>	DC-Link voltage sensor error	• Check the connection of input power	1 Time	Operation-off
<i>E471</i>	OTP error	• Check the PCB operates normally	1 Time	Operation-off
<i>E472</i>	AC Line Zero Cross Signal out	• Check the connection of input power	1 Time	Operation-off
<i>E473</i>	Comp Lock error	• Check the connection status of the compressor • Check the resistance between different phases in compressor	3 Times	Operation-off
<i>E475</i>	Fan error(two fan outdoor)	• Check the input power connection status • Check the connection status between the motor and PCB in outdoor unit • Check the fuse of indoor/outdoor units	1 Time	Operation-off
<i>E554</i>	GAS Leak error(Dual/Single)	• Check refrigerant is filled • Check the indoor EVA sensor	3 Times	Operation-off
<i>E556</i>	Capacity miss match	• Check the indoor unit's option code • Check the capacity of indoor unit's and outdoor unit's	1 Time	Operation-off

○:OFF ●:ON ○:BLINK

4-2-3 Wired remote controller(Option resource)

- If an error occurs  is displayed on the wired remote controller.
- To see an error code, please press the test button.

Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
801	Indoor unit communication error	Check the communication line for indoor units, check the power supply of the communication phase (DC)	Operation-off	Communication error
802	Communication time-out error between indoor/outdoor unit 6-packet over error	Check the communication line for indoor units, check the power supply of the communication phase (DC)	Operation-off	Communication error
828	Indoor temperature sensor (open/short error)	Check the temp. sensor of the indoor unit room. Check the indoor PCB connector CN21(white)	Operation-off	Indoor sensor error
822	Indoor unit Eva In sensor (open/short)	Check the indoor unit drainage pipe sensor Check the indoor PCB connector CN21 (white)	Operation-off	Indoor sensor error
828	Dismount of indoor unit Eva In sensor	Check the drainage pipe has been dismounted	Operation-off	Indoor sensor error
853	Secondary detection of indoor floating switch	Check the indoor unit's float sensor Check the indoor PCB connector CN51 (black)	Operation-off	Self-diagnosis error
208	Indoor unit not connected	Check the indoor unit connection Check the indoor unit option	Operation-off	Communication error
203	Communication error between indoor/outdoor unit INV and Main Micom (1 min.)	Check the Main MICOM Check the inverter MICOM	-	Communication error
228	Outdoor temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
230	Cond. temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
258	[inverter] Emission temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
885	Excessive temperature emission	Not an error (discharge temp. control)	-	Outdoor unit protection control error
825	Power cable connection error	Check the status of power connection	Operation-off	Outdoor sensor error

Wired remote controller (cont.)

- If an error occurs  is displayed on the wired remote controller.
- To see an error code, please press the test button.

Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
450	Non-connection error of indoor and outdoor Communication wire (connected to the power terminal)	Check the status of power connection Check the connection status of the communication line	Operation-off	Self-diagnosis error
458	Outdoor fan 1 error	Check the input power connection status Check the connection status between the motor and PCB in outdoor unit Check the fuse of indoor/outdoor units	Operation-off	Self-diagnosis error
461	[inverter] Compressor operation error	Check the connection status of the compressor Check the resistance between different phases in compressor	Operation-off	Outdoor unit protection control error
462	Discharge current error/ PFC over-current error	Check the input power Check refrigerant is filled Check outdoor fan operates normally	Operation-off	Outdoor unit protection control error
464	[inverter] IPM over current error	Check refrigerant is filled Check the connection status of compressor and if it operates normally Check for any obstacles around indoor/outdoor units	Operation-off	Outdoor unit protection control error
467	[inverter] Compressor rotation error	Check the connection status of the compressor Check the resistance between different phases in compressor	Operation-off	Outdoor unit protection control error
468	[inverter] Current sensor error	Check PCB operates normally	Operation-off	Outdoor unit protection control error
469	[inverter] DC link voltage sensor error	Check the connection of input power Check the status of RY21 and R2000 of Inverter PCB	Operation-off	Outdoor unit protection control error
476	[inverter] OTP error	Check PCB operates normally	Operation-off	Outdoor unit protection control error
475	Outdoor fan 2 error	Check the connection status of input power Check the connection status of motor and outdoor PCB Check the fuse of indoor/outdoor unit	Operation-off	Self-diagnosis error
554	Gas leakage error	Check refrigerant is filled Check the indoor EVA sensor	Operation-off	Self-diagnosis error
556	Inconsistent volume	Check the indoor unit's option code	Operation-off	Outdoor unit protection control error

Wired remote controller (cont.)

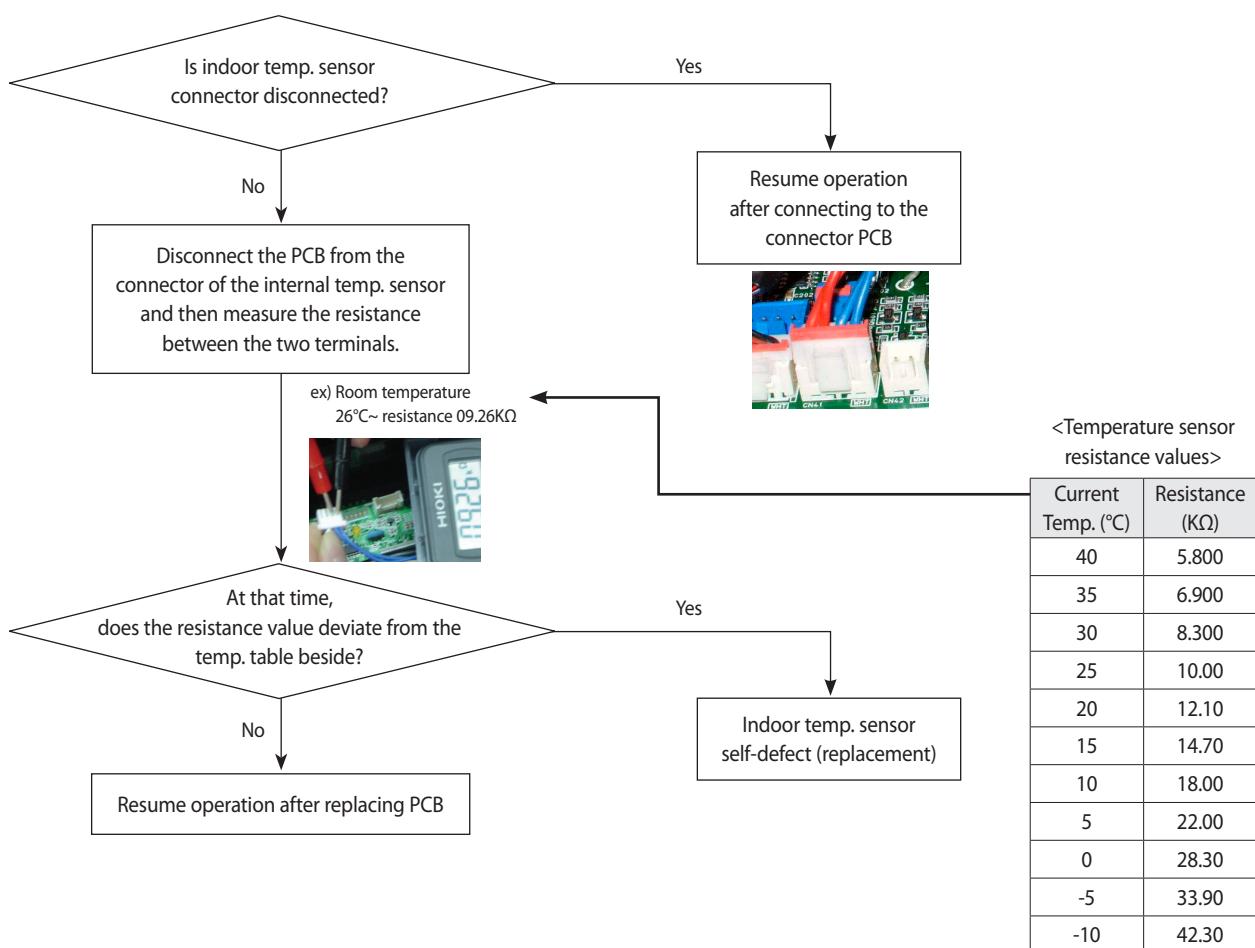
- If an error occurs  is displayed on the wired remote controller.
- To see an error code, please press the test button.

Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
601	Communication error between indoor unit and wired remote controller	Check the connection wire linking indoor unit and wired remote controller	Normal operation	Wired remote controller control error
602	Communication error between master and slave wired remote controller	Check the option switch that distinguishes master and slave (Available only for 1 master unit and 1 slave unit)	Normal operation	Wired remote controller control error
605	Cross installation error of COM1/ COM2	Check the connection of outdoor unit and wired remote controller is linked to Com2 terminal of the indoor unit	Normal operation	Wired remote controller control error
8EA	Wired remote controller COM2 setting option error	Check the Dip switch for Com1 and Com2 is set to Com2	Normal operation	Wired remote controller control error

4-3 Fault Diagnosis by Symptom

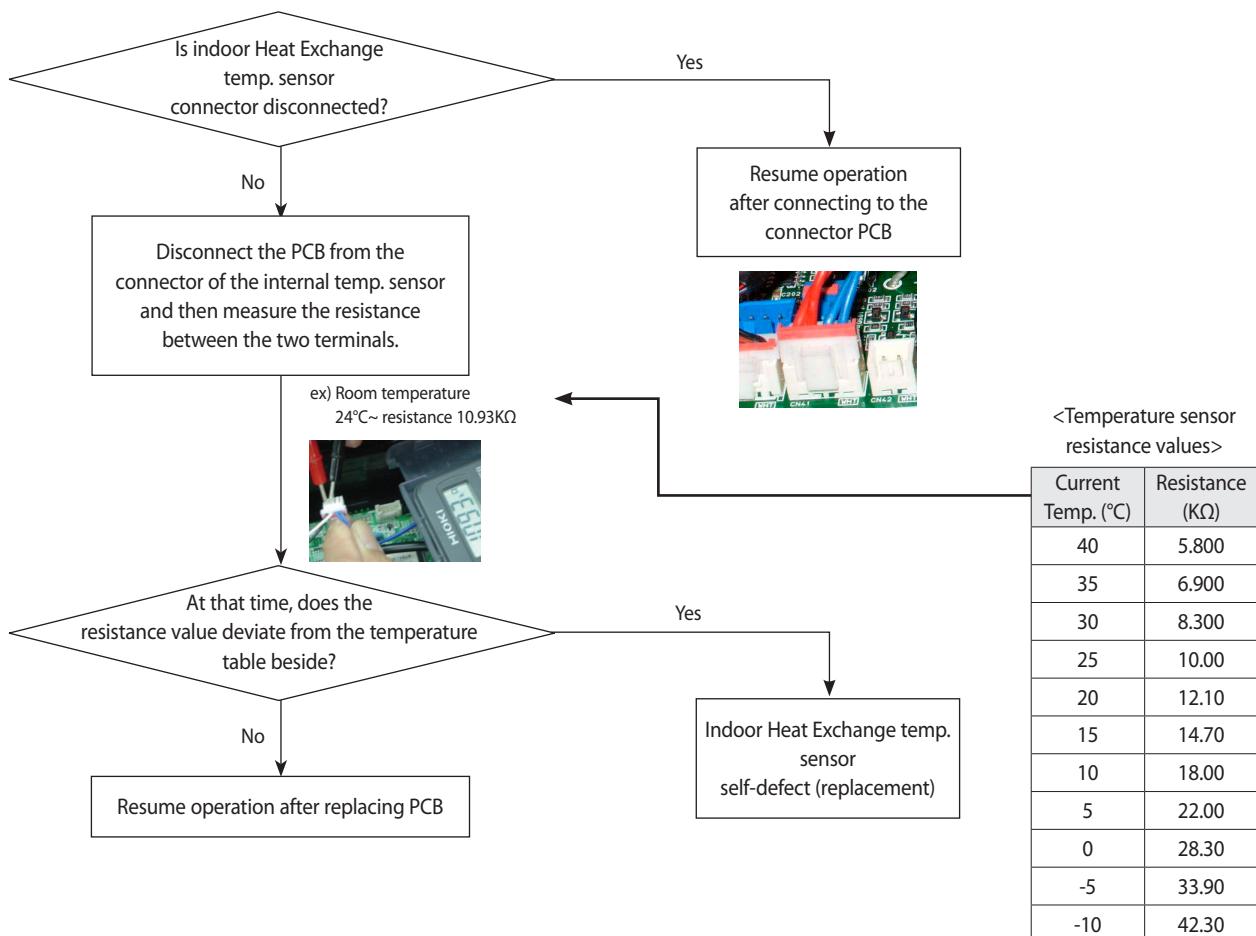
4-3-1 Indoor temperature sensor (open/short)

Indoor unit display	X(Operation) X(Defrost) (Reservation) X(Fan) X(MPI)
Criteria	In case of disconnection or short-circuit of the indoor temperature sensors
Cause of problem	Disconnection or short-circuit of the relevant sensors



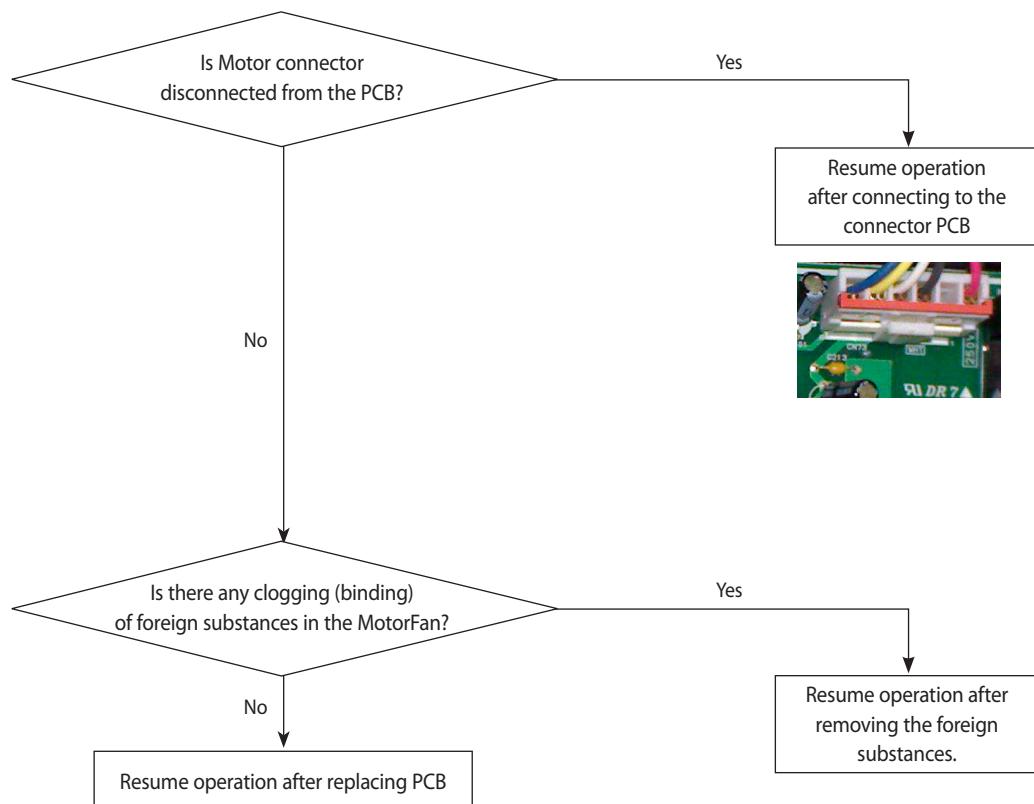
4-3-2 Indoor Heat Exchange temperature sensor (open/short)

Indoor unit display	X(Operation) X(Defrost)  (Reservation) X(Fan)  (MPI)
Criteria	In case of disconnection or short-circuit of the heat exchanger of indoor temperature
Cause of problem	Disconnection or short-circuit of the relevant sensors



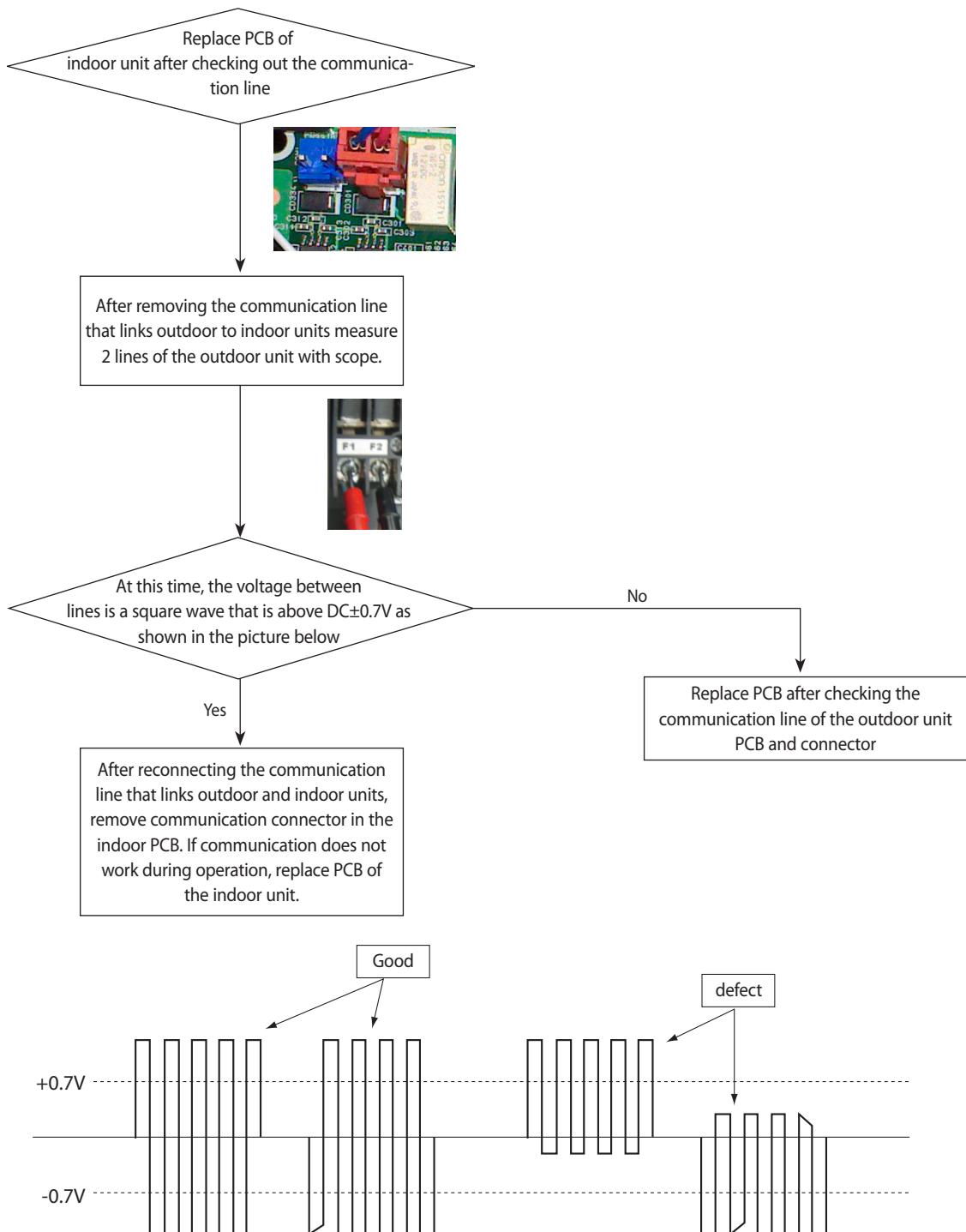
4-3-3 Indoor Fan error

Indoor unit display	X(Operation) <input checked="" type="radio"/> (Defrost) <input checked="" type="radio"/> Reservation X(Fan) X(MPI)
Criteria	Indoor fan being non-operative/ stop after excessive high speed
Cause of problem	Check for motor connector disconnect/ check motor fan fastening



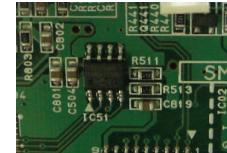
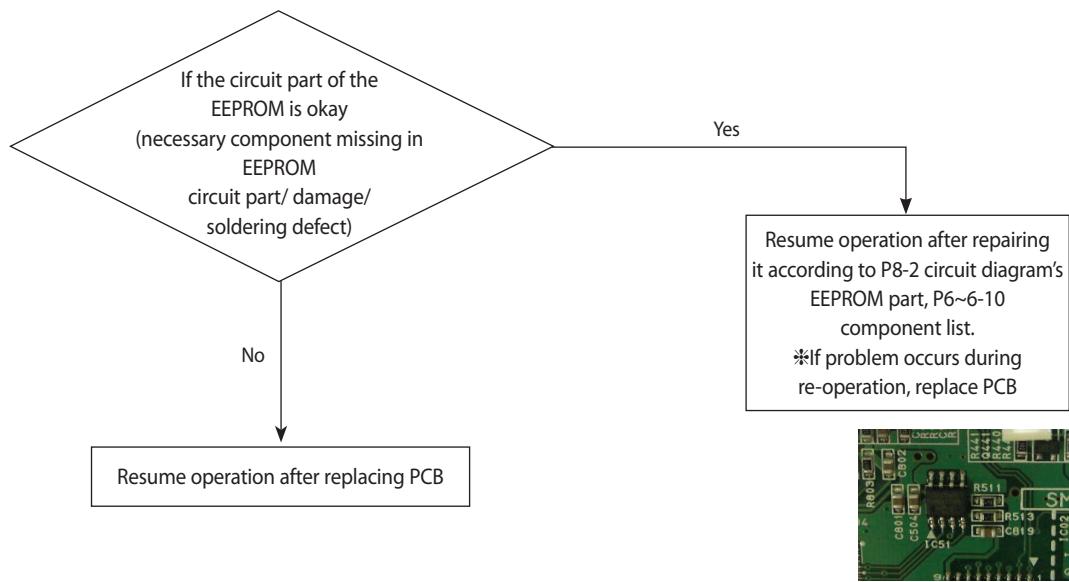
4-3-4 Communication error after completion of tracking

Indoor unit display	●(Operation) ●(Defrost) ●(Reservation) X(Fan) X(MPI)
Criteria	If communication between indoor and outdoor units has been blocked for 2 minutes during operation
Cause of problem	Communication error between indoor and outdoor unit



4-3-5 EEPROM circuit part defect

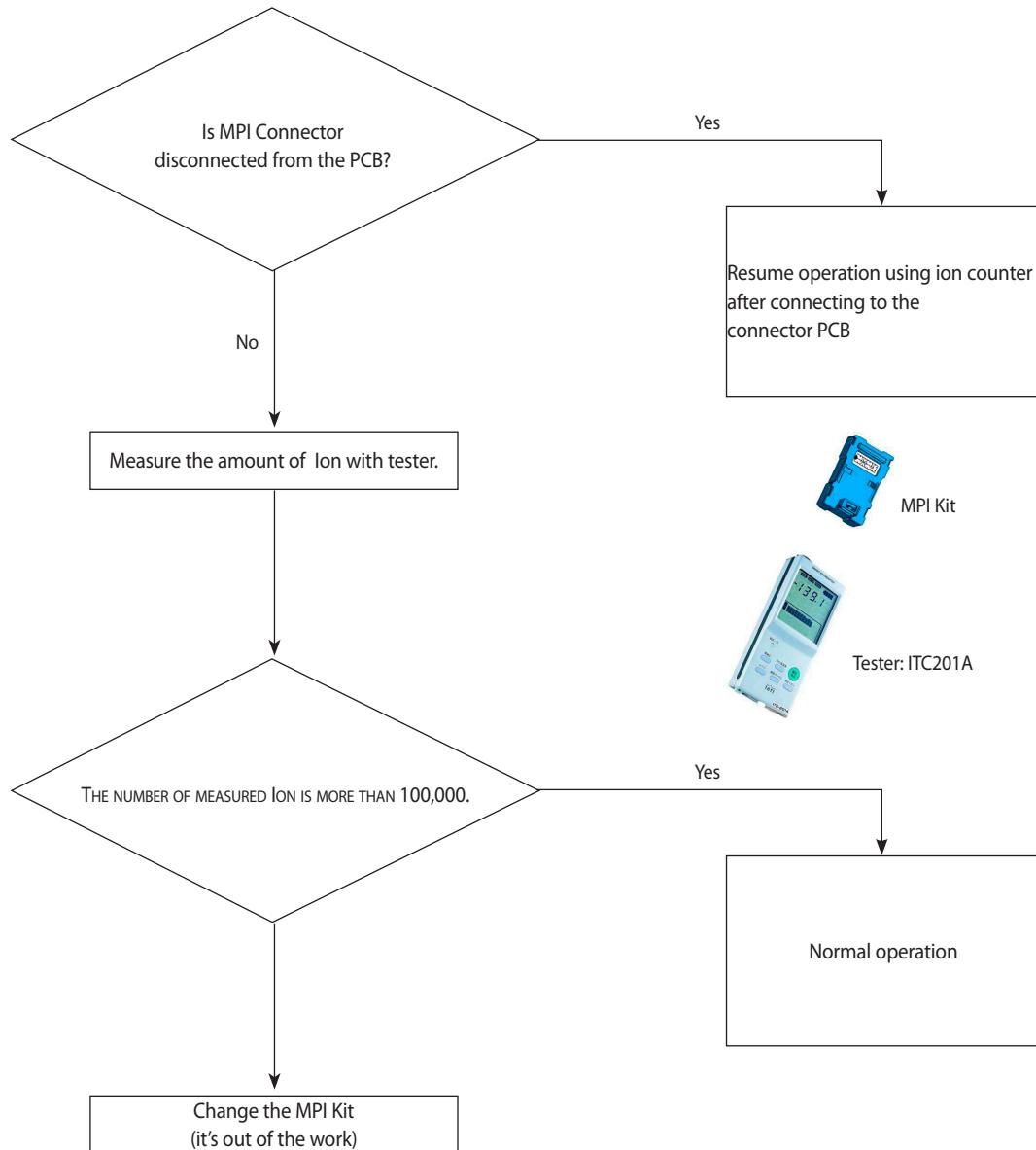
Indoor unit display	●(Operation) X(Defrost) ●(Reservation) ●(Fan) X(Filter)
Criteria	EEPROM circuit part defect
Cause of problem	EEPROM component defect/ necessary component missing in EEPROM circuit part/ damage/ soldering



4-3-6MPI(Micro Plasmalon) error

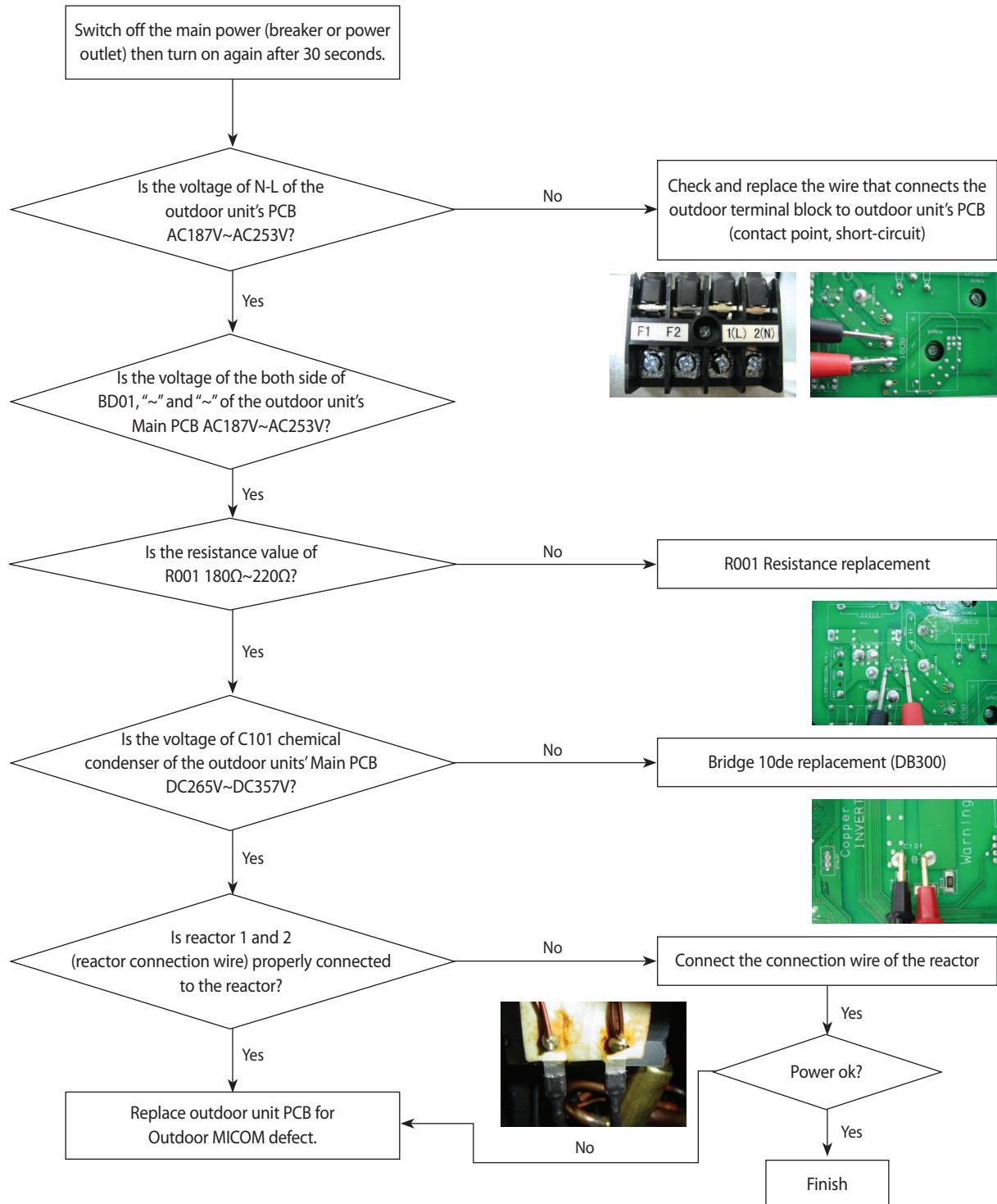
Indoor unit display	●(MPI) X(Fan) X(Reservation) X(Defrost) X(Operation)
Criteria	MPI non-operation
Cause of problem	Check for MPI connector disconnect

● On ● Flickering X Off



4-3-7 When outdoor units cannot be turned on

1. Cause of the breakdown
 - 1) Is power voltage 220V?
 - 2) Is AC power properly connected?
 - 3) Are the LEDs of Main PCB and inverter PCB of the outdoor unit on?
 - 4) Is the power supply of the outdoor unit 220V?
2. Inspection order

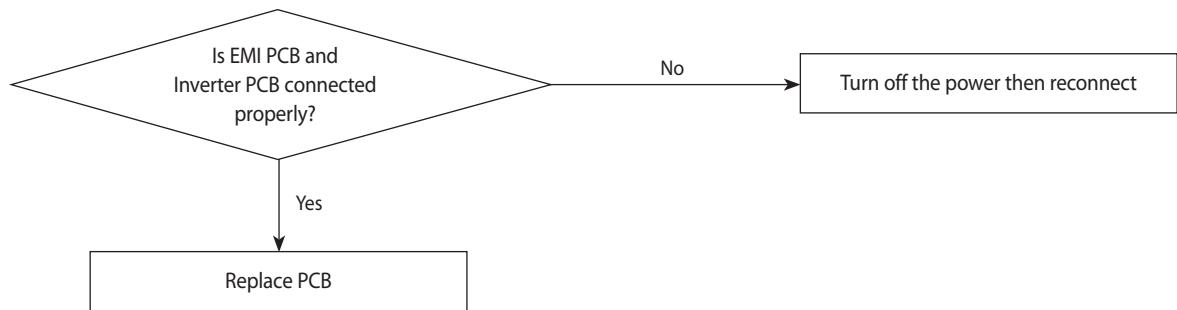


4-3-8 DC link and over/lower voltage error

1. Inspection items

- 1) Is compressor operating properly?
- 2) Is there a connection between input power and power?

2. Inspection order

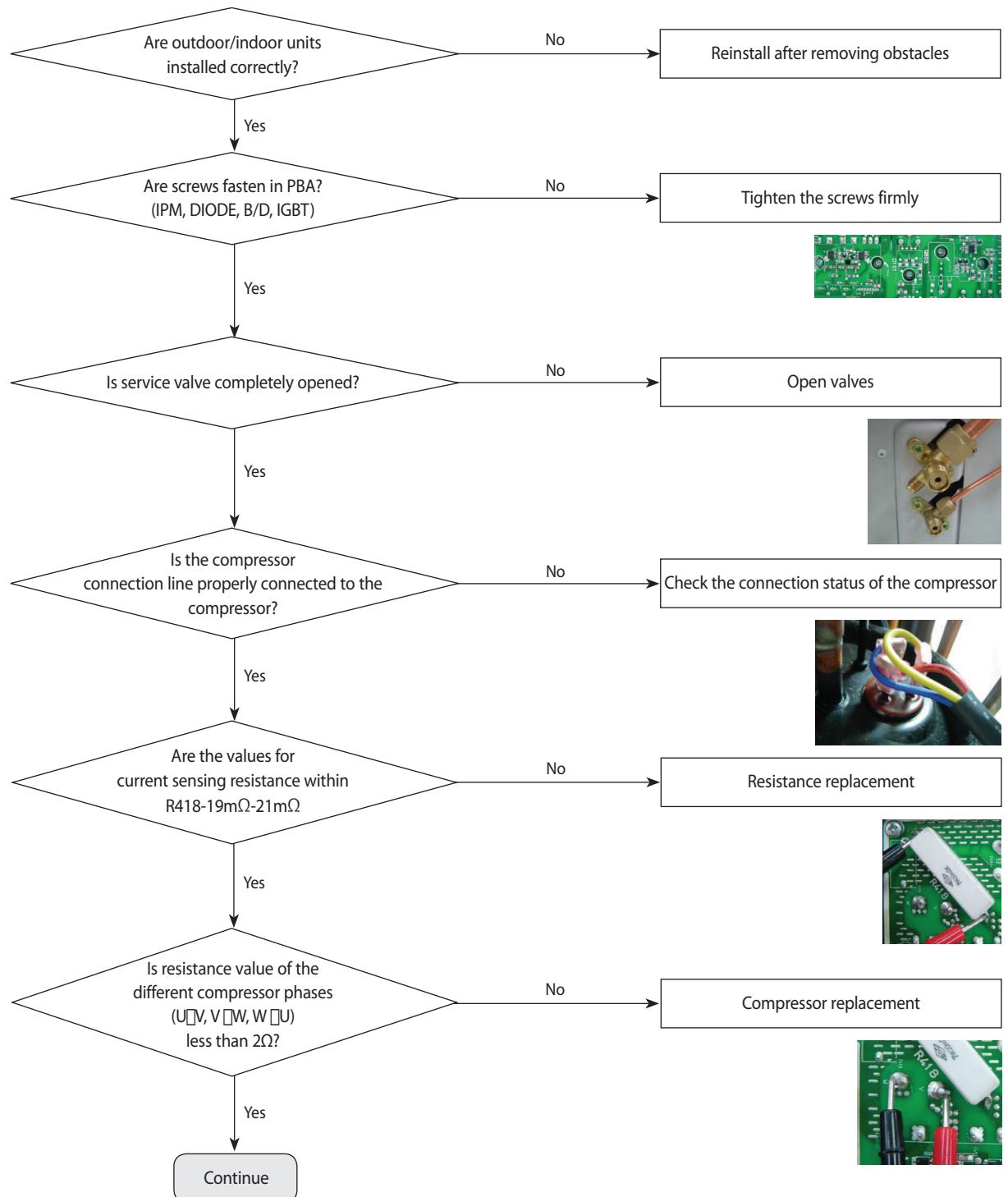


4-3-9 IPM and over current error

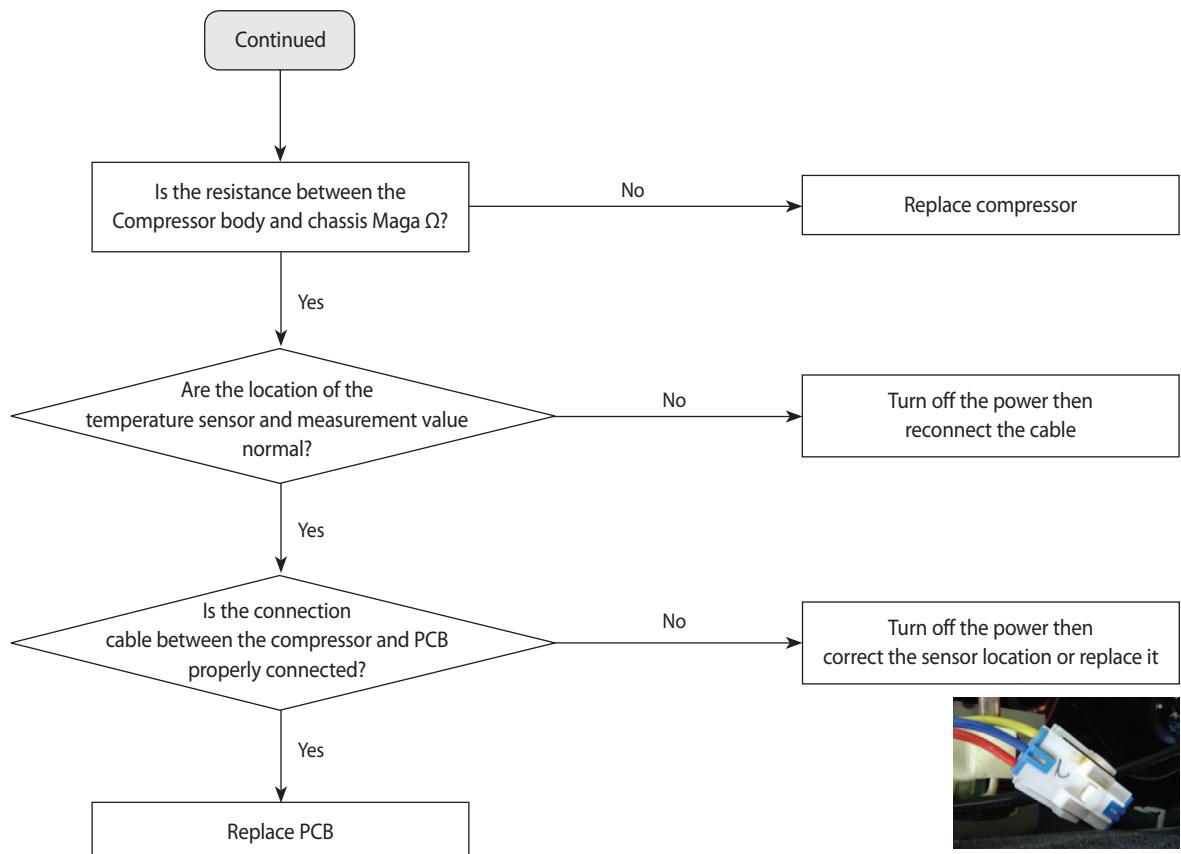
1. Inspection items

- 1) Is refrigerant filled?
- 2) Is the compressor operating without a problem?
- 3) Is the compressor connected properly?
- 4) Are there any obstacles around the indoor/outdoor units?

2. Inspection order



(continued on the back)

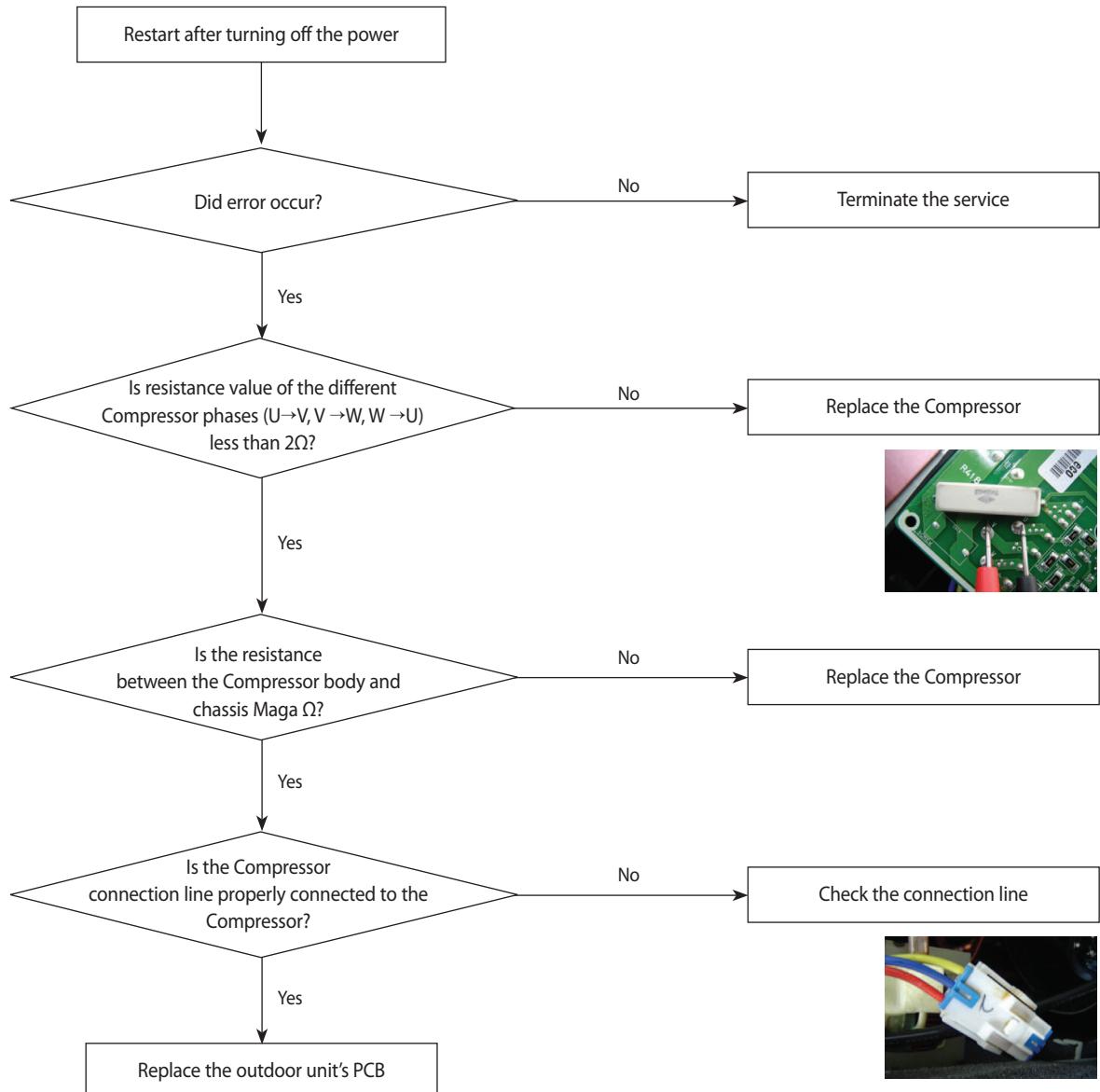
IPM and over current error (cont.)

4-3-10 Compressor starting error, compressor locking error, compressor revolving error

1. Inspection items

- 1) Is the connection line between power and the compressor properly connected?
- 2) Is the resistance between different compressor phases normal?

2. Inspection order

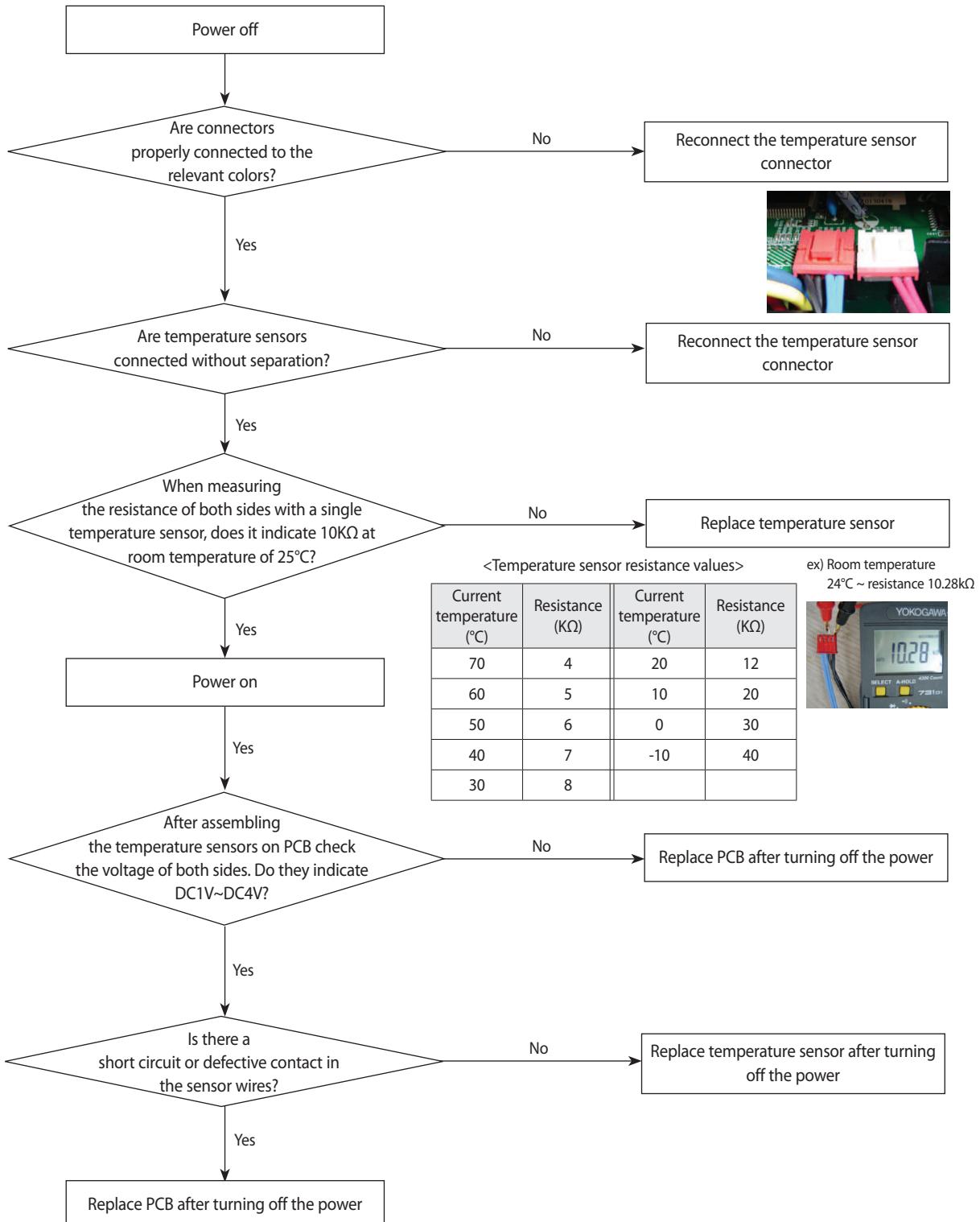


4-3-11 Outdoor temperature sensor error

1. Inspection items

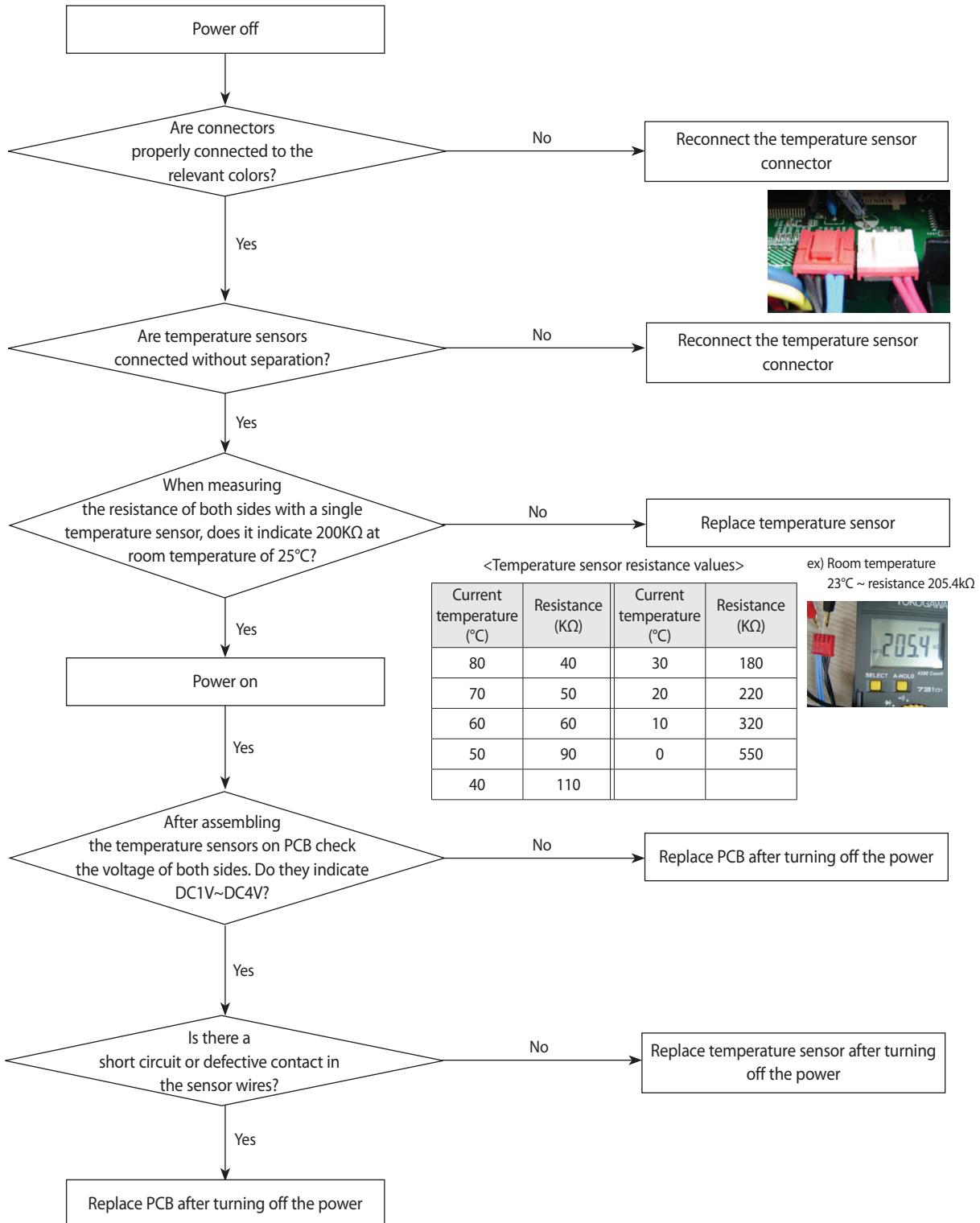
- 1) Are the sensors connected properly?
- 2) Are the sensors located properly?
- 3) Do the resistance values of the sensors satisfy each temperature?

2. Inspection order



4-3-12 Emission temperature sensor error

1. Inspection items
 - 1) Are the sensors connected properly?
 - 2) Are the sensors located properly?
 - 3) Do the resistance values of the sensors satisfy each temperature?
2. Inspection order

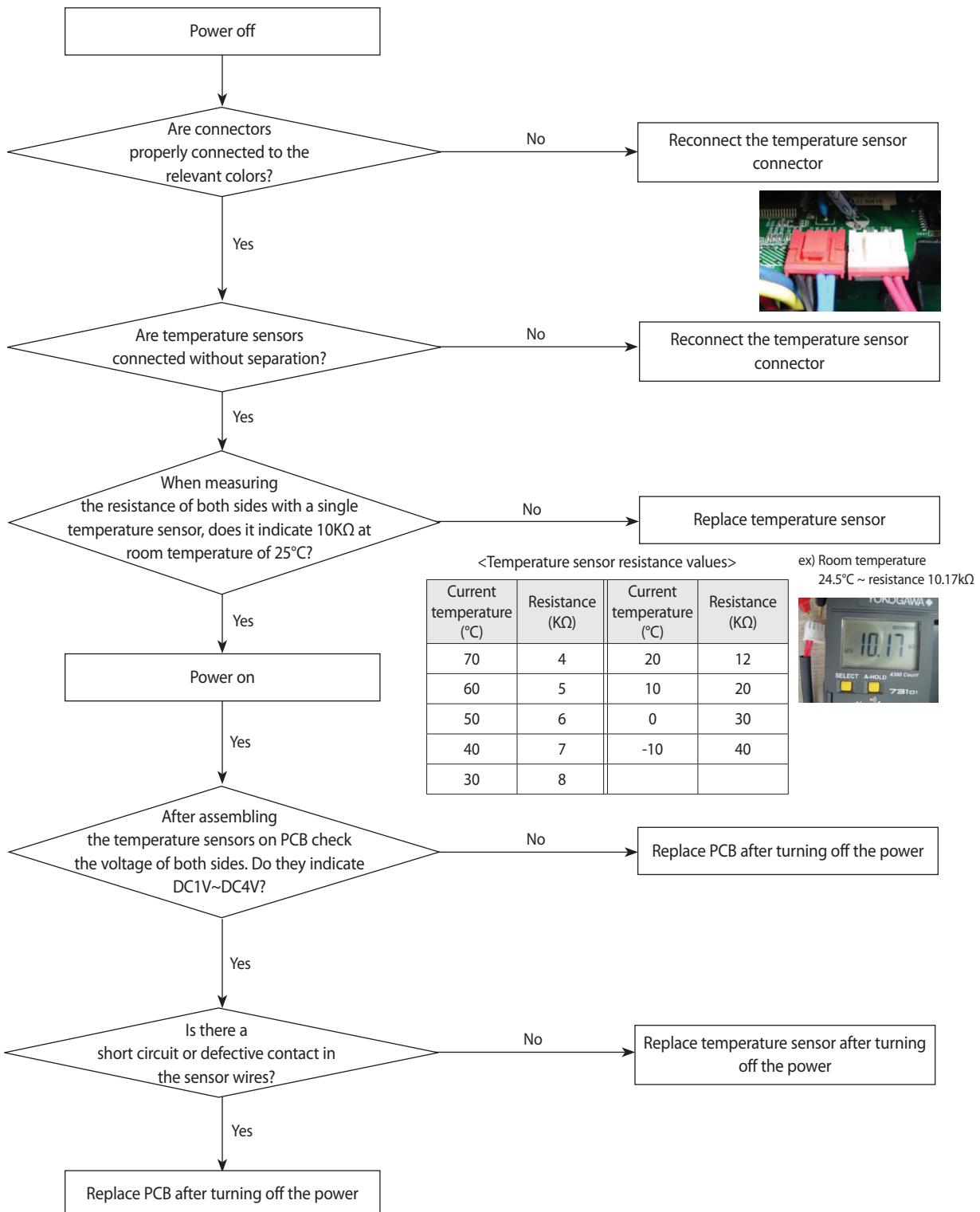


4-3-13 Cond temperature sensor error

1. Inspection items

- 1) Are the sensors connected properly?
- 2) Are the sensors located properly?
- 3) Do the resistance values of the sensors satisfy each temperature?

2. Inspection order

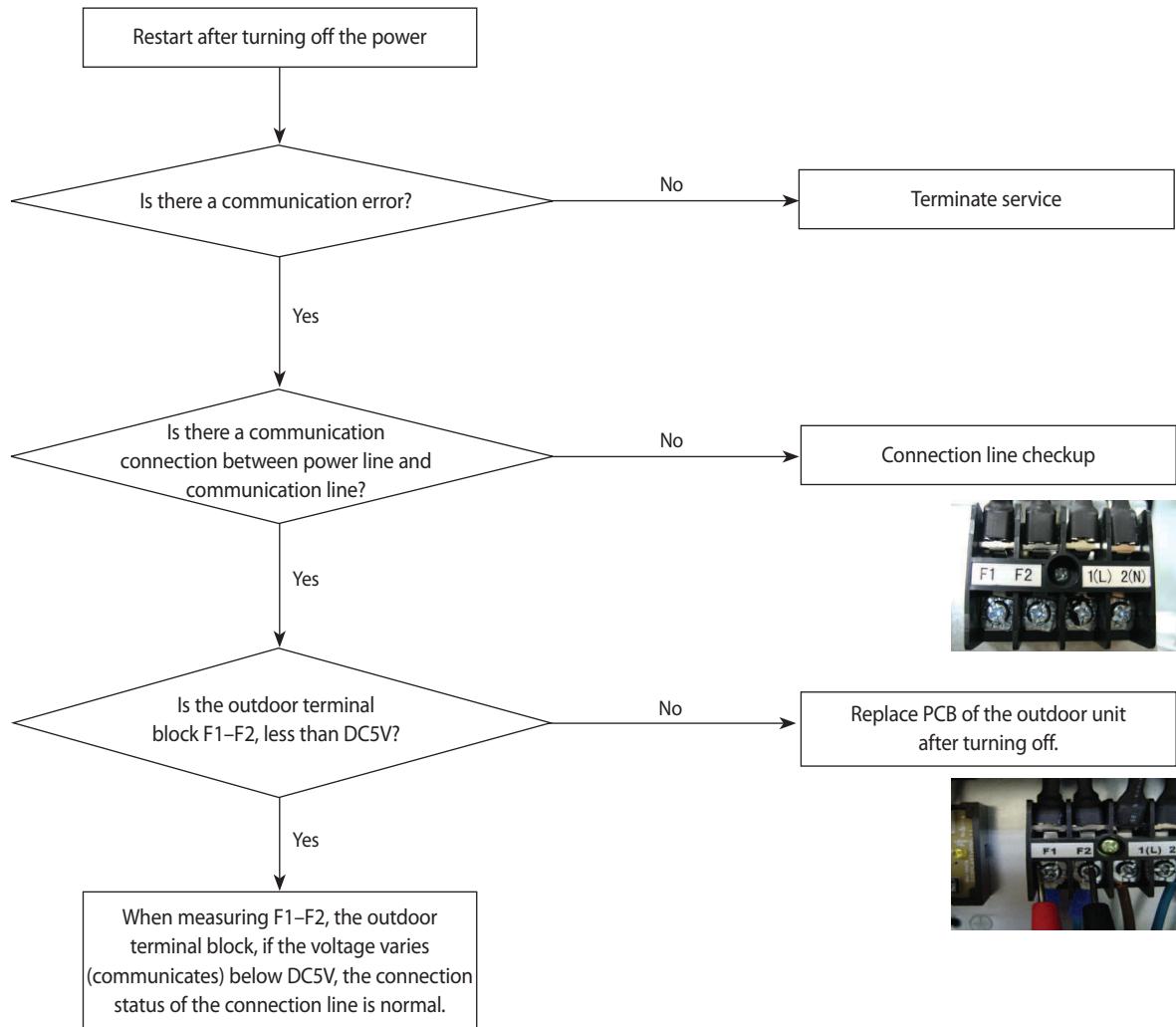


4-3-14 Communication error between indoor/outdoor units (1min.)

1. Inspection items

- 1) Is the communication line between indoor and outdoor units connected properly?
- 2) Is there a communication connection between power line and communication line?

2. Inspection order

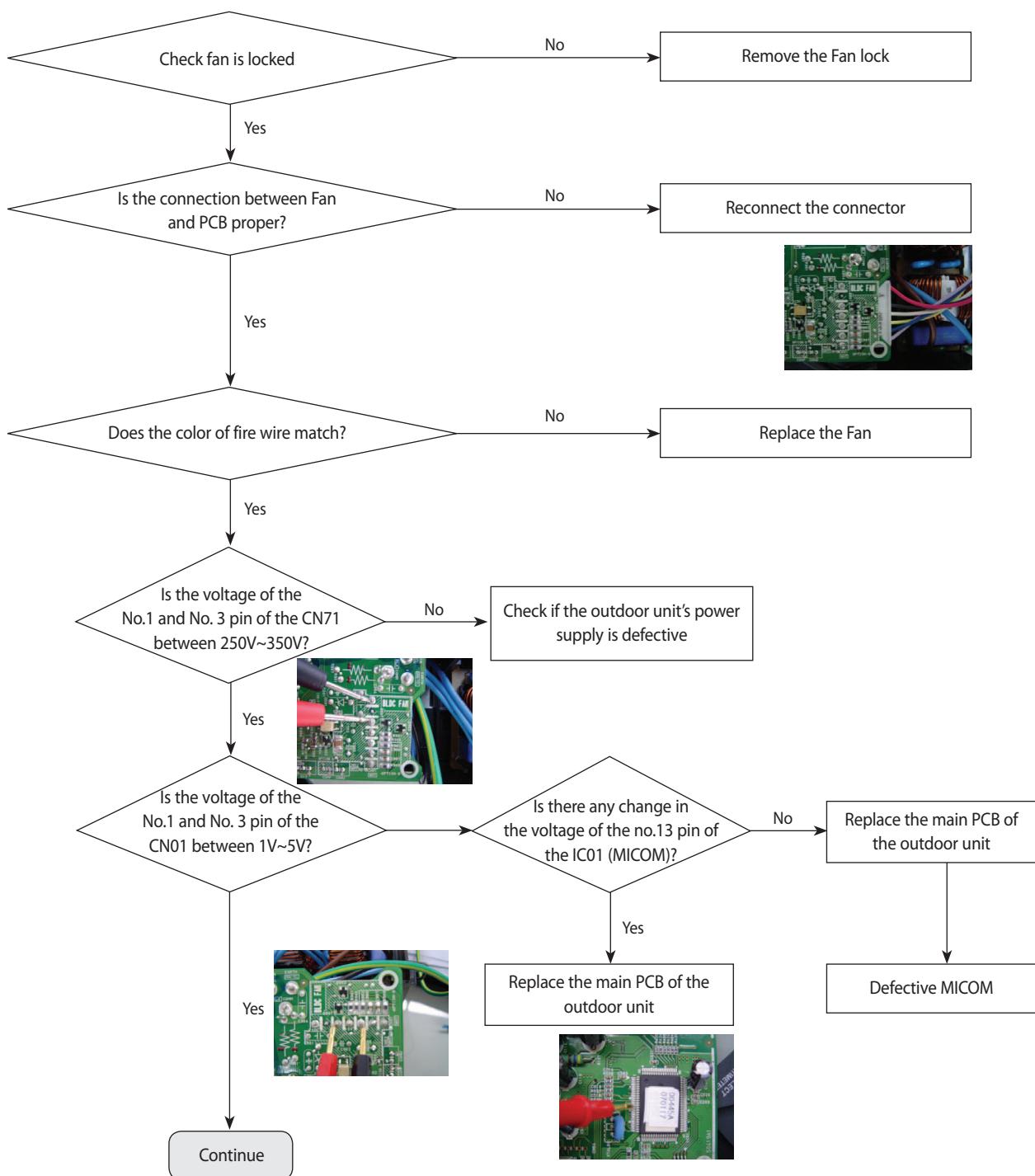


4-3-15 Outdoor fan error

1. Inspection items

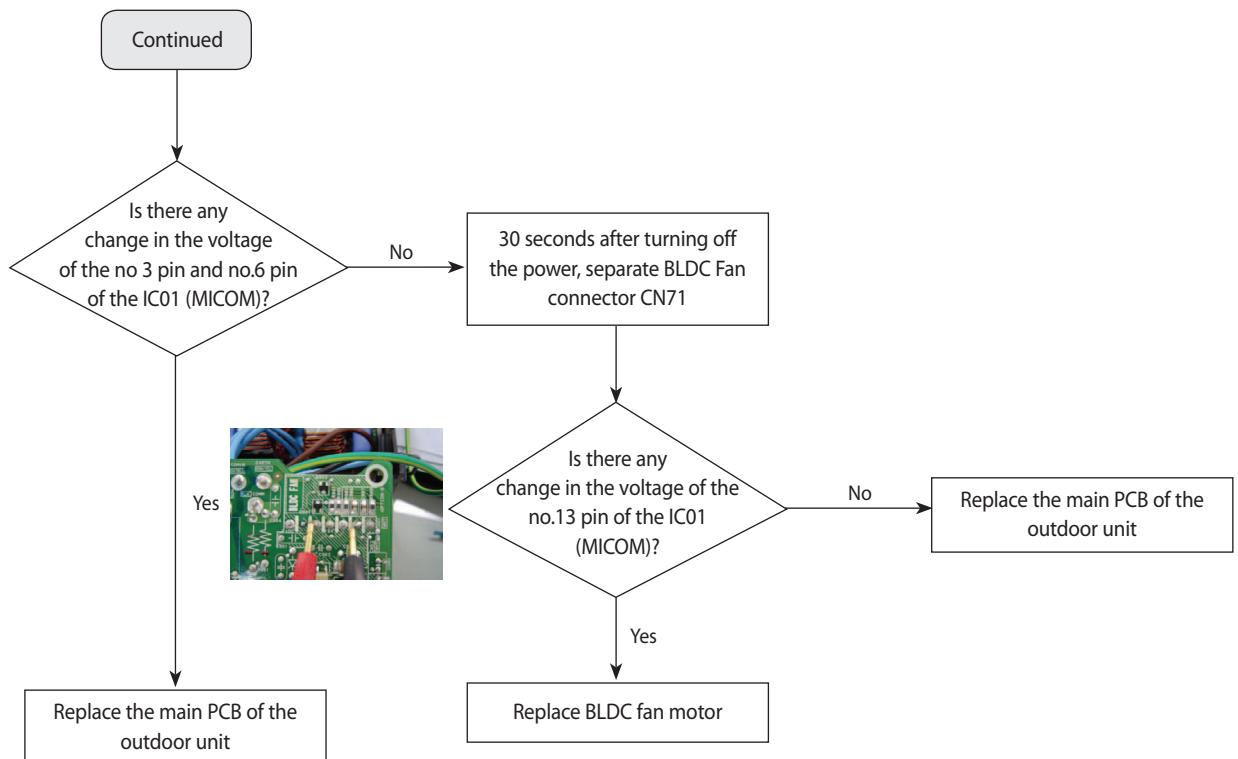
- 1) Is input power and power connected properly?
- 2) Is motor connection line properly connected to the PCB of the outdoor unit?
- 3) Is the fuse for indoor/outdoor unit connected?
- 4) Are there any obstacles around Motor or Propeller?
- 5) Is Motor Driver out of order?

2. Inspection order



(continued on the back)

Outdoor fan error (cont.)

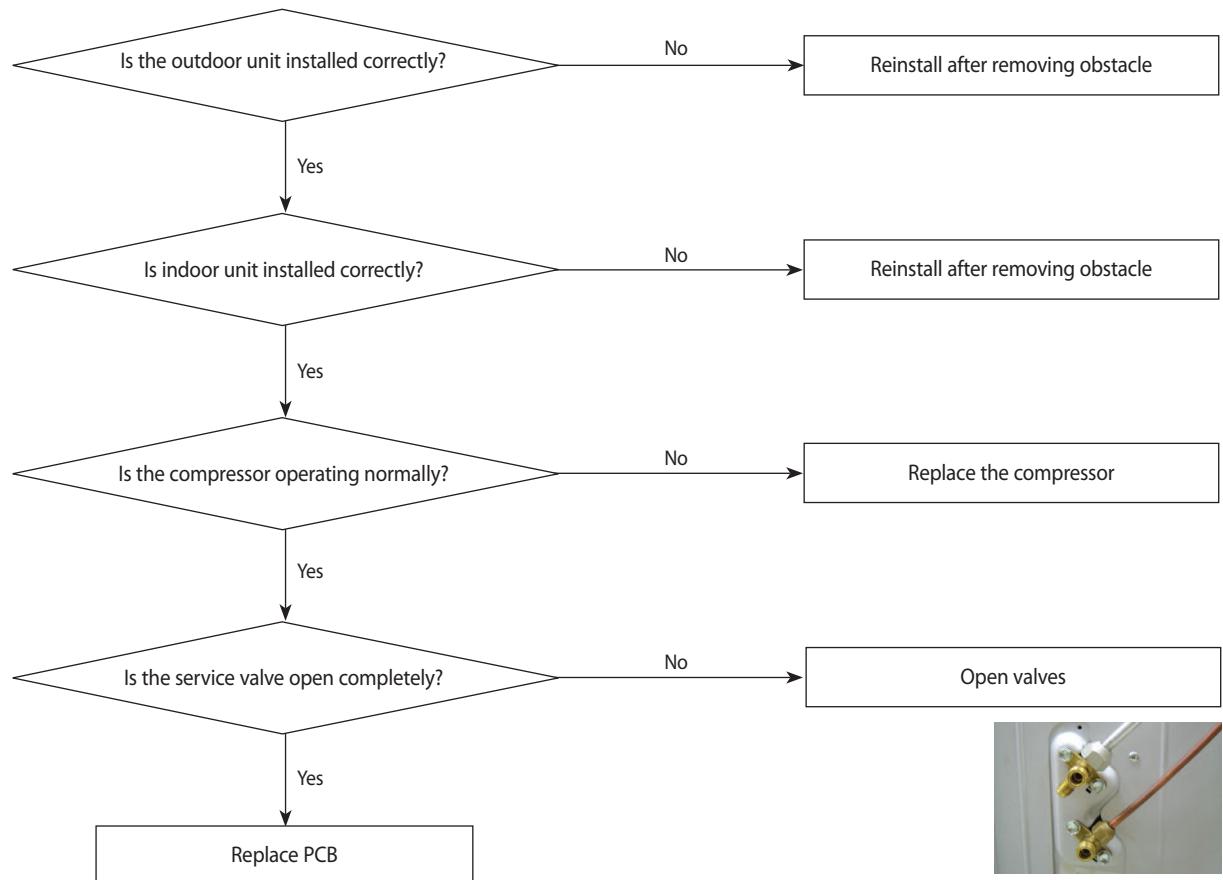


4-3-16 Discharge current error/ PFC over-current error

1. Inspection items

- 1) Is input power correct?
- 2) Is refrigerant filled?
- 3) Is the outdoor fan spinning correctly?
- 4) Are there any obstacles around indoor/outdoor units?

2. Inspection order

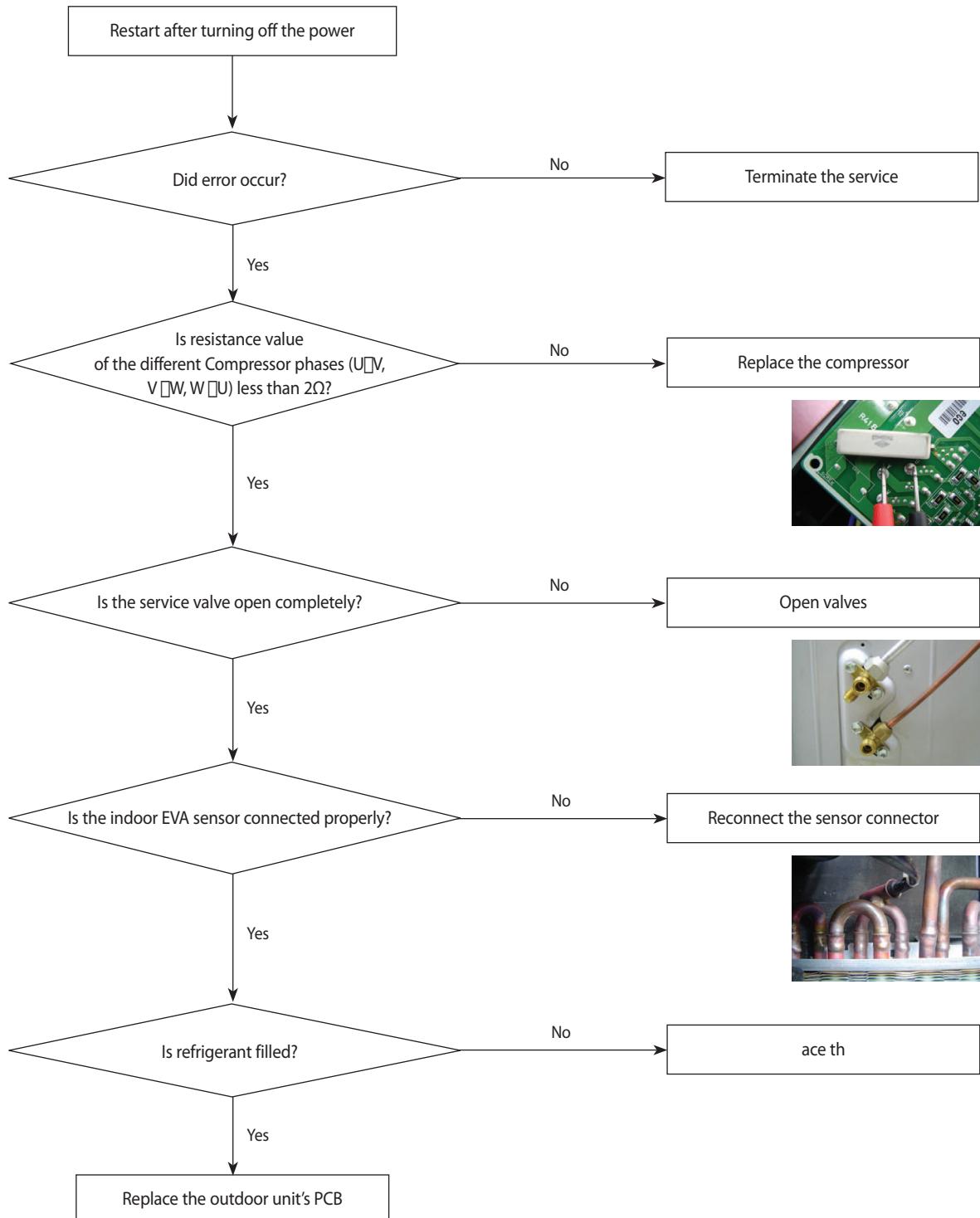


4-3-17 Gas leakage error

1. Inspection items

- 1) Is refrigerant filled?
- 2) Is the indoor EVA sensor connected properly?

2. Inspection order



4-3-18 Other

1. Current sensor error

Check PCB operates normally then replace the PCB

2. Compressor V limit error

Check the compressor operates normally then replace the compressor. If an error still occurs after the replacement of the compressor, replace the PCB

3. OTP error

Check PCB operates normally then replace the PCB

4. DC link Voltage Sensor Error

Check the connection between input power and the power is okay then replace the PCB

5. AC zero Crossing signal out error

Check the connection between input power and the power is okay then replace the PCB

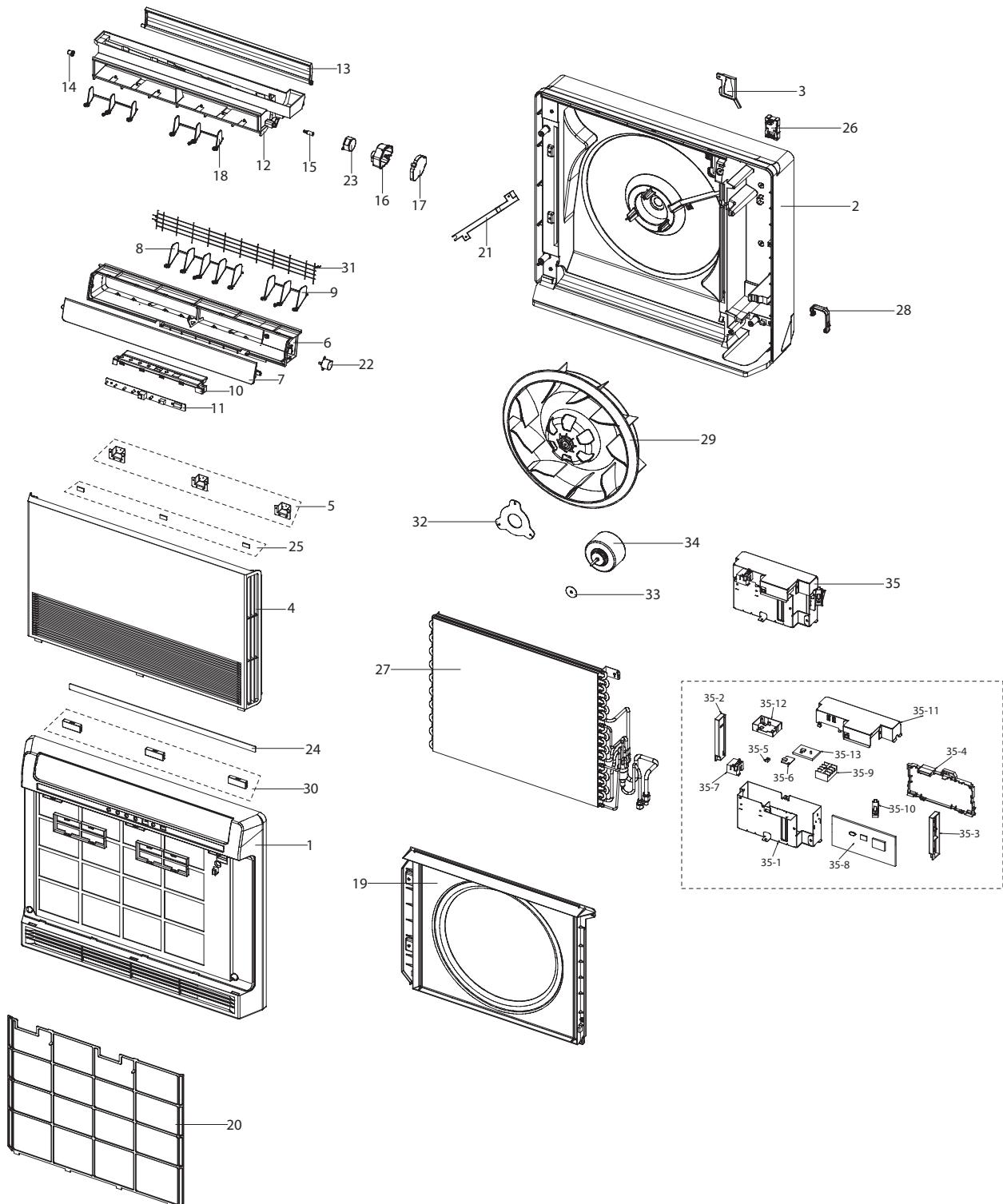
6. Inconsistent volume

Check the option code of the indoor unit.

5. Exploded Views and Parts List

5-1 Indoor Unit

■ JH026/035EAV1

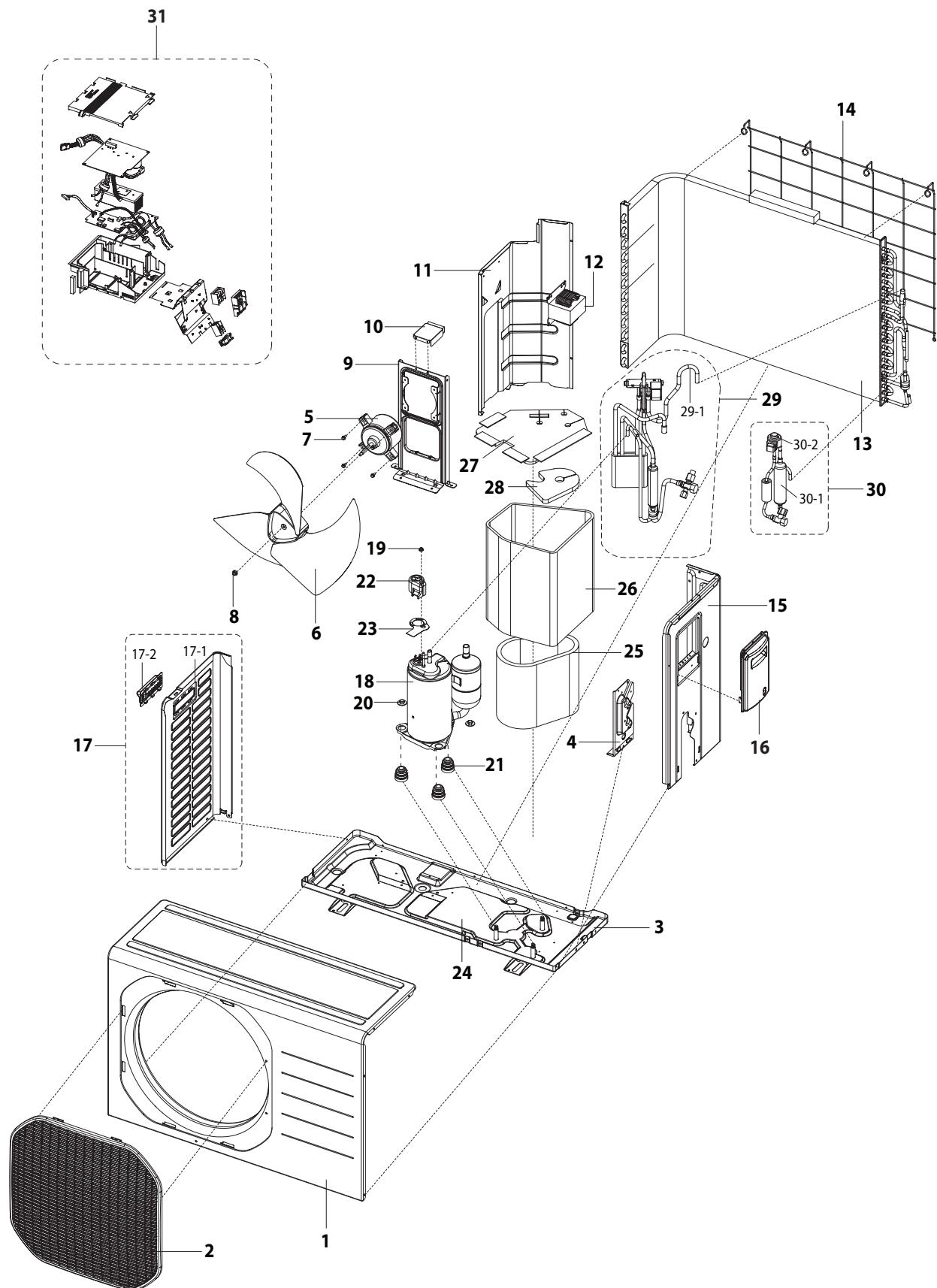


■ Parts List

No.	Code	Description	Specification	Q'TY	SA/SNA
1	DB61-03545A	Body Front	HIPS, T2.5	1	SA
2	DB61-03547A	Body Back	HIPS, T2.5	1	SA
3	DB67-00899A	Cap MPI	HIPS, T1.8	1	SA
4	DB64-02060A	Panel Front	HIPS, T2.5	1	SA
5	DB67-00898A	Cap Magnet	PC, T1.0	3	SA
6	DB61-03544A	Body Top Discharge	HIPS, T2.5	1	SA
7	DB66-01282A	Blade Top H	HIPS, T2.5	1	SA
8	DB66-01281A	Blade Top V LF	PP, T2.7	1	SA
9	DB66-01280A	Blade Top V RH	PP, T2.7	1	SA
10	DB61-03543A	Case Display PCB	PP, T1.0	1	SA
11	DB90-03848A	Assy Case Display PCB	Assy	1	SA
12	DB61-03546A	Body Bottom Discharge	HIPS, T2.5	1	SA
13	DB66-01284A	Blade Bottom H	HIPS, T2.5	1	SA
14	DB66-01286A	Link Bottom Blade LF	POM	1	SA
15	DB66-01285A	Link Bottom Blade RH	POM	1	SA
16	DB61-03553A	Case Motor Step	ABS V0, T2.5	1	SA
17	DB67-00897A	Cap Motor Step	ABS V0, T2.5	1	SA
18	DB66-01283A	Blade Bottom V	PP, T2.7	2	SA
19	DB61-03559A	Body Bell Mouth	HIPS, T2.5	1	SA
20	DB63-01998A	Filter Air	PP, T2.5	1	SA
21	DB61-03551A	Bracket Wire Mold	HIPS, T1.8	1	SA
22	DB31-00371A	Motor Step	ABS V0, T2.5	1	SA
23	DB31-00370A	Motor Step	ABS V0, T2.5	1	SA
24	DB90-03823A	Assy Half Mirror Display	PMMA, T2.0, 594X17	1	SA
25	DB61-01477A	Magnet	20x10x3, Gauss 2,400 ~ 2,600	1	SA
26	DB93-04230A	Compact MPI	-	1	SA
27	DB96-09024A	Assy Evap	Assy	1	SA
28	DB61-03542A	Bracket Pipe	PP, T2.5	1	SA
29	DB31-00507A	Fan Turbo	SAN GF20%, Ø410, H76	1	SA
30	DB70-00923A	Plate Steel	SGCC-M, T0.8	1	SA
31	DB63-01999A	Guard Top Outlet	HSWR, Ø1.5	1	SA
32	DB61-03554A	Bracket Motor	SGCC-M, T2.0	1	SA
33	DB70-00921A	Plate Motor	SGCC-M, T1.0	1	SA
34	DB31-00331A	Motor Fan	SIC-55CV-F137-1, SIBAURA	1	SA
35	DB93-06165A	Assy Control In	Assy	1	SNA
35-1	DB90-03842A	Assy Case Control PD	Assy	1	SA
35-2	DB61-03540A	Slider Case PCB A	ABS V0, T2.5	1	SA
35-3	DB61-03541A	Slider Case PCB B	ABS V0, T2.5	1	SA
35-4	DB61-03537A	Case PCB Main	ABS V0, T2.5	1	SA
35-5	DB67-00896A	Cap Switch	ABS V0, T2.0	1	SA
35-6	DB93-06169A	Assy PCB Sub Switch	PBA	1	SA
35-7	DB61-03549A	Case PCB Switch	ABS V0, T2.5	1	SA
35-8	DB93-06164A	Assy PCB Main In	PBA	1	SA
35-9	DB65-00004U	Terminal Block	4P	1	SNA
35-10	DB61-40291C	Holder Wire	-	1	SA
35-11	DB63-02001A	Cover Control	SGCC-M, T0.5	1	SA
35-12	DB61-03550A	Case PCB Address	ABS V0, T2.5	1	SA
35-13	DB93-04640c	PCB Address	PBA	1	SA

5-2 Outdoor Unit

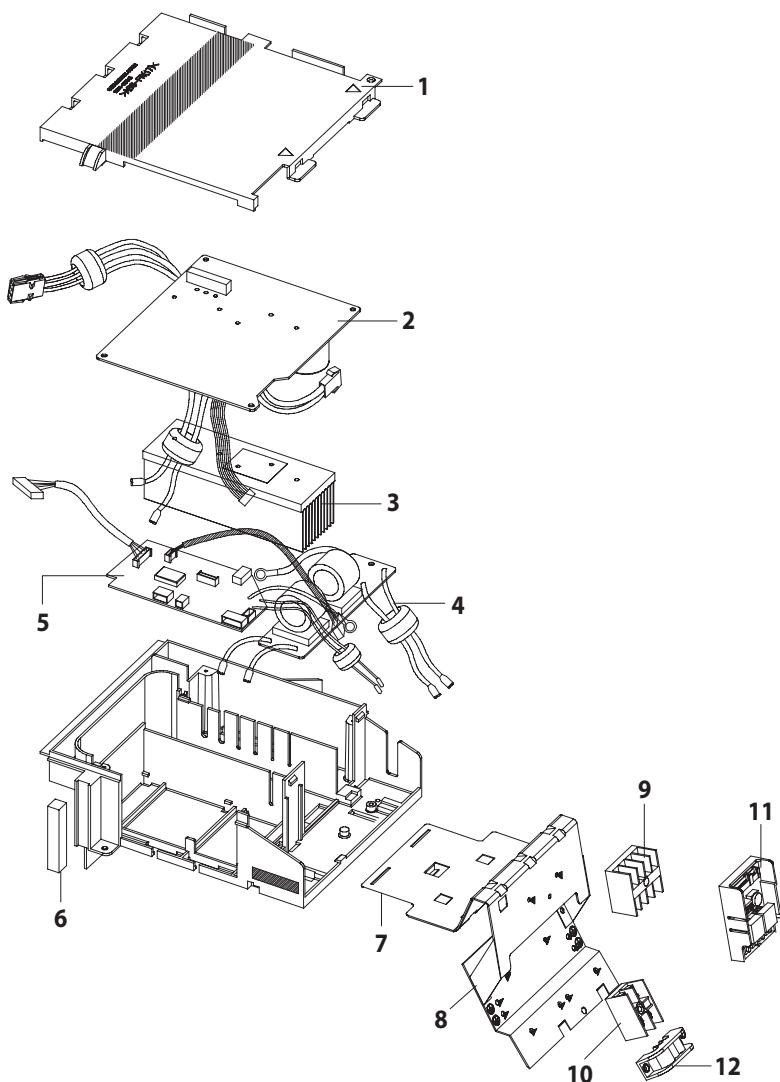
■ UH026/035EAV1



■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				UH026EAV1	UH035EAV1	
1	DB90-01711F	ASS'Y CAB FRONT	ASS'Y	1	1	SA
2	DB63-00847A	GUARD FAN	PP	1	1	SA
3	DB90-01681E	ASS'Y BASE OUT	ASS'Y	1	1	SA
4	DB61-02068B	BRACKET-VALVE	PSECC-P,T1.6	1	1	SA
5	DB31-00431A	MOTOR FAN-BLDC	BLDC,8P,25W,710RPM,E CLASS	1	1	SA
6	DB67-00397A	FAN-PROPELLER	AS+GF20%,Φ400	1	1	SA
7	DB60-00150A	SCREW SPECIAL	M4,L26	4	4	SA
8	DB60-30004A	SCREW-MACHINE	M6,ZPC(WHT)	1	1	SA
9	DB61-01644A	BRACKET MOTOR	SGCC-M	1	1	SA
10	DB97-02225D	ASS'Y-SUPPORT PLATE B/M	ASS'Y	1	1	SA
11	DB94-01327A	ASS'Y-PARTITION	ASS'Y	1	1	SA
12	DB27-00041A	COIL CHOKE-REACTOR	5mH,10%,120mOHM,10A	1	1	SA
13	DB96-08373A	ASS'Y COND	ASS'Y	1	1	SA
14	DB64-02028A	SCREEN-COND BAR	HSWR	1	1	SA
15	DB90-04025A	ASS'Y CABINET-SIDE RH	ASS'Y	1	1	SA
16	DB90-03653A	ASS'Y COVER CONTROL	ASS'Y	1	1	SA
17	DB90-01713A	ASS'Y-CABI SIDE LF	ASS'Y	1	1	SA
17-1	DB64-00982A	CABINET-SIDE LF	SECC-P	1	1	SA
17-2	DB64-00992A	HANDLE-LF	PP	1	1	SA
18	G4C090LUDER	COMPRESSOR	ROTARY	1	1	SA
19	6021-001142	NUT-HEXAGON FLANGE	M5,ZPC(YEL)	1	1	SA
20	DB60-30028A	SCREW-HEX	M8,ZPC(WHT)	3	3	SA
21	DB99-00987A	ASS'Y GROMMET	ASS'Y	3	3	SA
22	DB63-00816A	COVER TERMINAL	NORYL	1	1	SA
23	DB63-00817A	GASKET	EPDM RUBBER	1	1	SA
24	DB63-01958A	FELT-COMP BOTTOM	FELT+PVC	1	1	SA
25	DB63-01647A	FELT-COMP SIDE	FELT+PVC	1	1	SA
26	DB63-01934A	FELT-COMP SIDE OUT	FELT+PVC	1	1	SA
27	DB63-02034A	FELT-COMP UPPER	FELT+PVC	1	1	SA
28	DB63-01710B	FELT-COMP UPPER	FELT+PVC	1	1	SA
29	DB96-08389A	ASS'Y-VALVE 4WAY	ASS'Y	1	1	SA
29-1	DB33-00002C	SOLENOID-ASS'Y	ASS'Y	1	1	SA
30	DB96-08390A	ASS'Y-VALVE EEV	ASS'Y	1	1	SA
30-1	DB62-03916A	VALVE-EXPANSION BODY	FUJIKOKI,Φ1.4	1	1	SNA
30-2	DB62-03964A	VALVE EXPAN-COIL	FUJIKOKI,Φ1.4	1	1	SNA
31	DB93-05837B	ASS'Y CONTROL OUT	ASS'Y,UH026EAV1	1	-	SA
	DB93-05837A	ASS'Y CONTROL OUT	ASS'Y,UH026EAV1	-	1	SA

5-3 Ass'y Control Out



■ Parts List

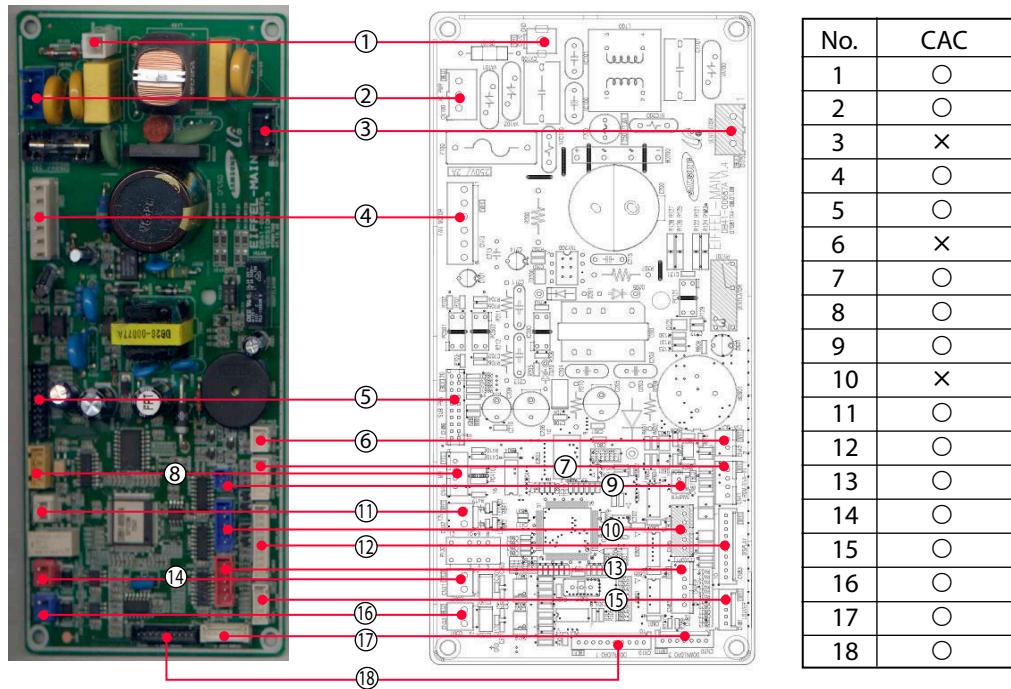
No.	Code No.	Description	Specification	Q'TY		SA/SNA
				UH026EAV1	UH035EAV1	
1	DB61-02249A	CASE CONTROL-COVER	ABSV0,2,0	1	1	SA
2	DB93-05834A	ASS'Y PCB MAIN-INVERTER	ASS'Y, UH035EAV1	-	1	SA
	DB93-05834B	ASS'Y PCB MAIN-INVERTER	ASS'Y, UH026EAV1	1	-	SA
3	DB62-03155A	HEAT SINK	KFR-35(25)GW/GPI,AL,2,50,140	1	1	SA
4	DB93-05836A	ASS'Y PCB SUB-EMI	ASS'Y	1	1	SA
5	DB93-06291B	ASS'Y PCB MAIN-OUT	ASS'Y	1	1	SA
6	DB61-02250A	CASE CONTROL-BASE	ABSV0,2,0	1	1	SA
7	DB70-00728A	PLATE-CONTROL OUT UPPER	SGCC-M,T0.6,W140,L130	1	1	SA
8	DB70-00727A	PLATE-CONTROL OUT MAIN	SGCC-M,T0.6,W52.4,L131.4	1	1	SA
9	DB95-01101H	ASS'Y-TERMINAL BLOCK	300V, 25A, 4P	1	1	SA
10	DB95-01180A	ASS'Y-TERMINAL BLOCK	250V,25A,2P	1	1	SA
11	DB93-05955A	ASS'Y PCB SUB-DISPLAY	ASS'Y	1	1	SA
12	DB61-01097A	HOLDER-WIRE CLAMP	ABS, BLK	2	2	SA

6. PCB Diagram and Parts List

6-1 PCB Diagram

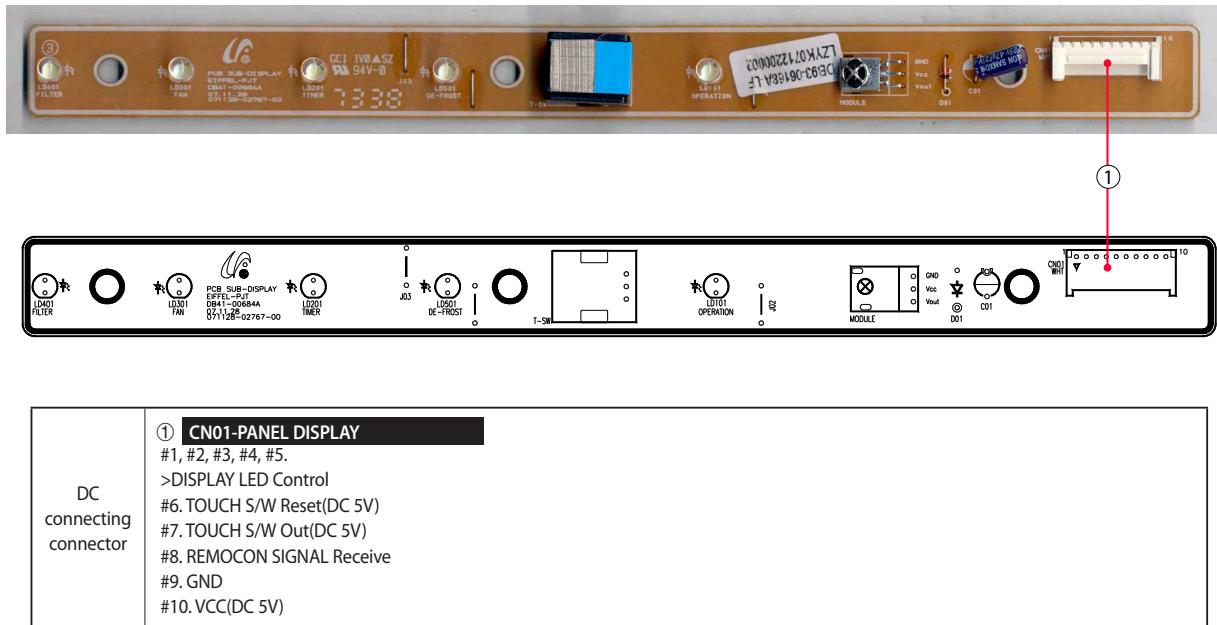
6-1-1 Indoor Unit

■MAIN PCB

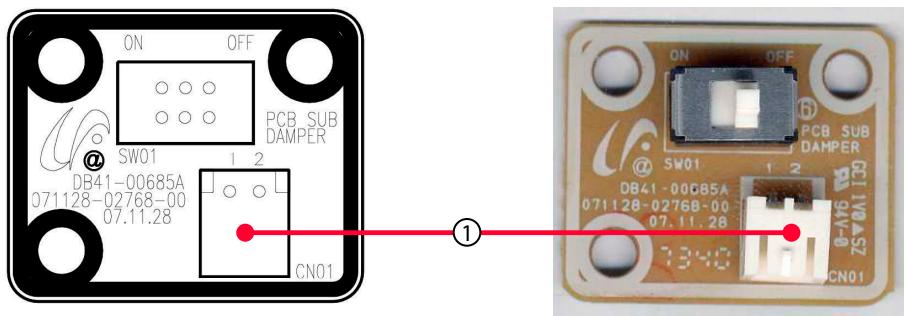


AC Power or Motor Power Connector	<p>① CN70-GND ② CN100-AC Power Input ③ CN75-VENTILATOR Output ④ CN73-Fan Motor Output(BLDC) #1. DC 300V #2. No use #3. DGND #4. DC 15V #5. PC501 Output #6. RPM Output</p>	<p>⑤ CN86-SUB PBA #1~#10 Address/Option S/W Control #11~#14. GND #15. External Control On/Off #17, #19. DC 12V</p>	<p>⑥ CN42-EVA OUT #1. GND #2. EVA OUT Temp Sensor</p>	<p>⑦ CN41-Indoor Temp Sensor #1. ROOM Temp Sensor #2. GND #3. EVA-IN Temp Sensor #4. GND</p>	<p>⑧ CN45-MPI #1. MPI(-) ON/OFF Control(DC 12V) #2. MPI(+) ON/OFF Control(DC 12V) #3. DC 12V #4. MPI Feedback</p>
DC connection Connector	<p>⑨ CN87-DAMPER S/W #1. DC 5V #2. GND</p>	<p>⑩ CN84-Electric Expansion Valve(EEV) #1~#4. Control Signal #5. DC 12V</p>	<p>⑪ CN32-DC 12V Output #1. DC 12V #2. GND</p>	<p>⑫ CN83-PANEL DISPLAY #1, #2, #3, #4, #5> DISPLAY LED #6. TOUCH S/W Reset(DC 5V) #7. TOUCH S/W Out(DC 5V) #8. REMOCON SIGNAL Receive #9. GND #10. VCC(DC 5V)</p>	
	<p>⑬ CN82-DAMPER MOTOR #1. DC 12V #2~#5. Control SIGNAL</p>	<p>⑭ CN31-COM1 Communication (Indoor-Outdoor Communication) #1.Communication Signal F1 #2.Communication Signal F2</p>	<p>⑮ CN84-LOUVER MOTOR #1. DC 12V #2~#5.Communication Signal</p>	<p>⑯ CN33-COM2 Communication (Indoor-Wired Remote Controller) #1. Communication Signal F1 #2. Communication Signal F2</p>	
	<p>⑰ CN20-MICOM Download2 > For Developer,Not for field > 7pin Downloader</p>	<p>⑱ CN10-MICOM Download1 >For Developer, Not for field >10pin Downloader</p>			

6-1-2 Display PCB

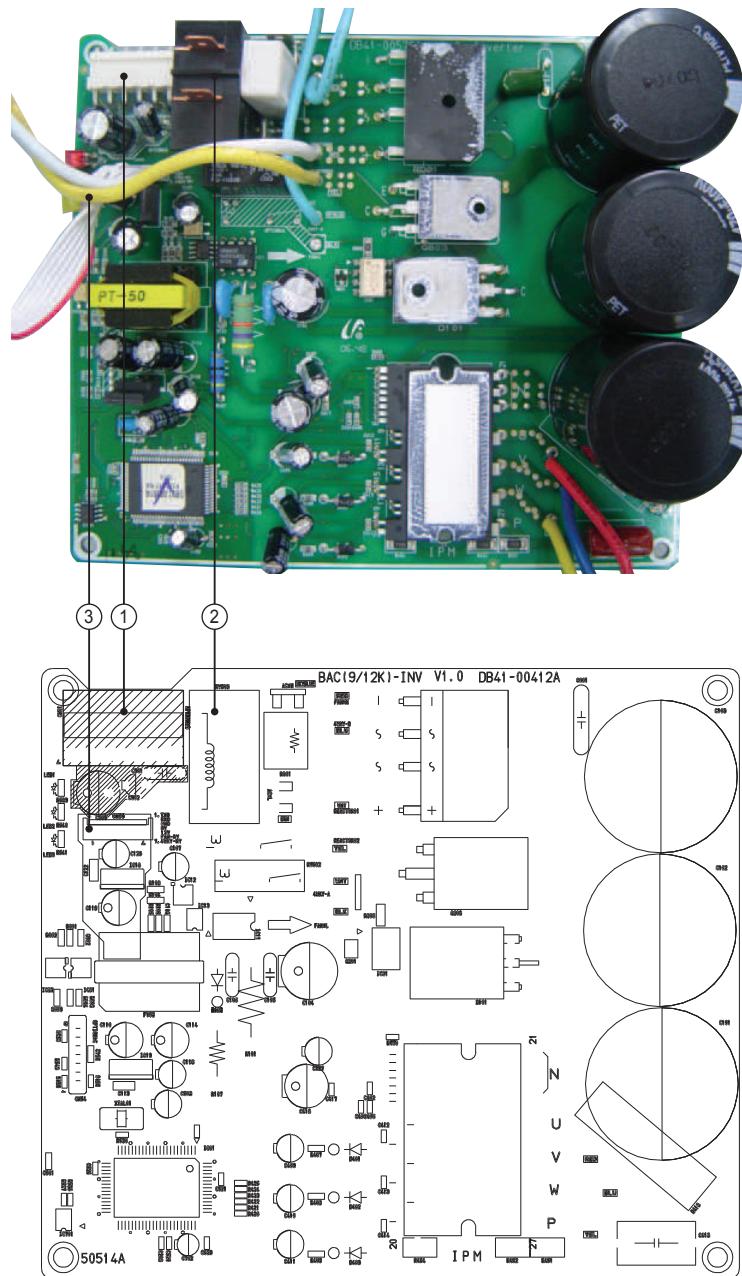


6-1-3 DAMPER PBA

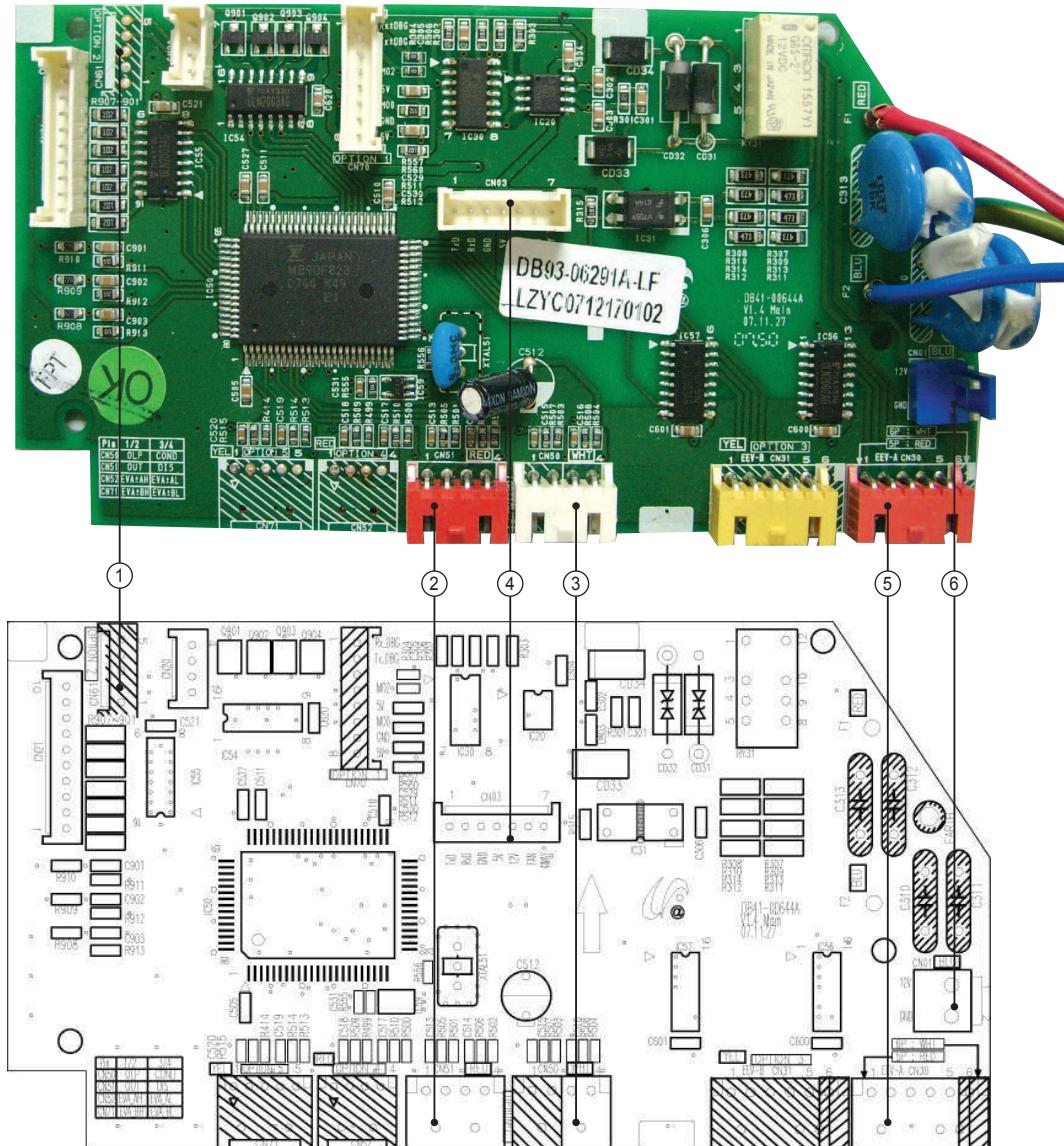


6-1-4 Outdoor Unit

■ INVERTER PCB



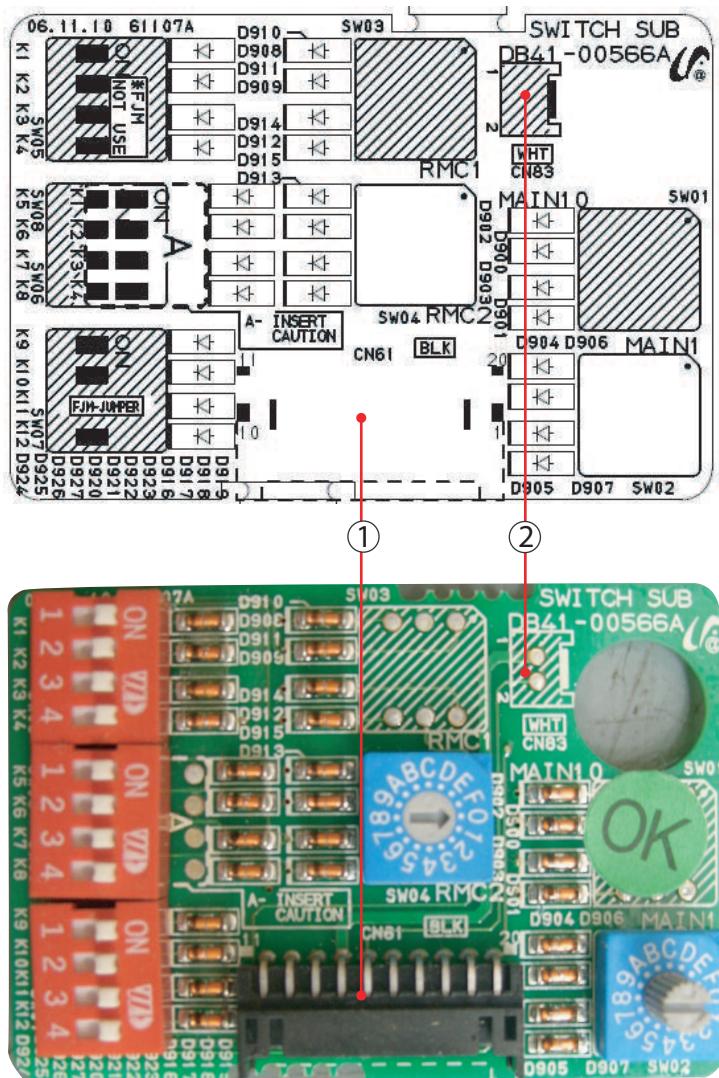
① CN01 (7PIN/WHT) : BLDC Fan #1 : DC link voltage #2 : Not used #3 : GND #4 : 16V #5 : Detect FAN RPM #6 : FAN FG #7 : Detect fan counter rotation	② RY503 : Power Relay # Upper Pin : Power Input # Lower pin : Send power to the circuit	③ CN55(7PIN/WHT) : Main PCB #1 : TXD_Main #2 : RXD_Main #3 : GND #4 : DC5V #5 : 12V #6 : Fan relay #7 : 4 way relay
--	--	---

Outdoor Unit (cont.)**■ MAIN PCB**

① CN61(5PIN/WHT) : Display #1~2 : Display the operation status on LED #3 : Transmit the S/W inputs to MAIN #4~5 : Transmit signals to the display	② CN51(4PIN/RED) : Temperature Sensor #1 : Transmit detected temperature outside #3 : Transmit detected discharge temperature #2, 4 : GND	③ CN50(4PIN/WHT) : Temperature Sensor #1~2 : Not used #3 : Transmit detected COND temperature #4 : GND
④ CN03(7PIN/WHT) : Inverter PCB #1 : TXD_MAIN #2 : RXD_MAIN #3 : GND #4 : DCSV #5 : 12V #6 : Fan relay #7 : 4 way relay	⑤ CN30(6PIN/WHT) : EEV #1~4 : Receive EEV motion signal #5~6 : 12V	⑥ CN01(2PIN/BLU) : Transmitter #1 : 12V #2 : GND

Outdoor Unit (cont.)

■ Address PCB



① CN83: TO EXTERNAL

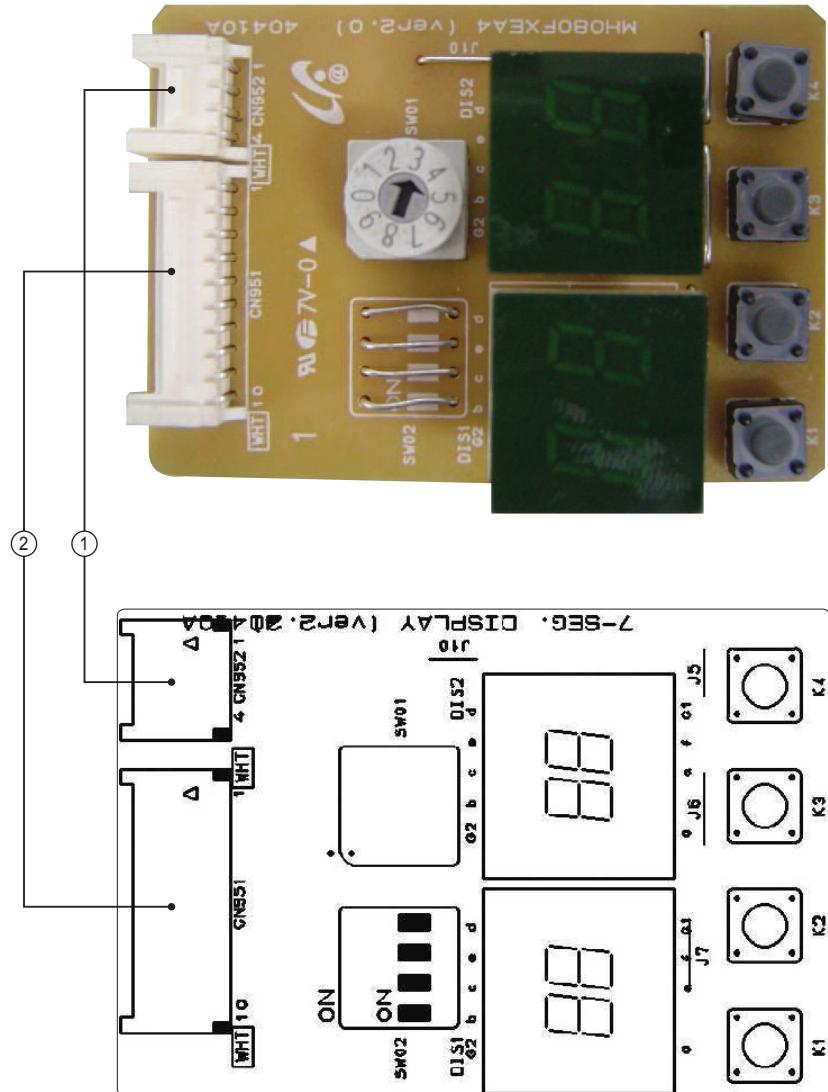
#1,2 : EXTERNAL CONTROL SIGNAL

② CN61: TO MAIN PCB CONTROL

#1: DYNAMIC_DATA4 / #2: DYNAMIC_DATA5
#3: DYNAMIC_DATA6 / #4: DYNAMIC_DATA7
#5: GRID0 / #6: GRID1
#7: GRID2 / #8: GRID3
#9: GRID4 / #10: GRID5
#14: EXTERNAL CONTROL SIGNAL
#15: EXTERNAL CONTROL SIGNAL / #17 DC12V
#19 DC12V / #20 GRID6
#11,12,13,16,18: Not used

Outdoor Unit (cont.)

■ Display PCB



① CN952(4PIN/WHT) : Display

#1~4 : Receive signals from the Main

② CN951(10PIN/WHT) : Display

#1~7 : 7-SEGMENT signal

#8~10 : Receive KEY operation signals from the Main

6-2 Parts List

6-2-1 Indoor Unit

■ MAIN PCB : DB93-06164A

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
D205	0402-000137	DIODE-RECTIFIER	1N4007,1KV,1A,DO-41,TP	1	SNA	
ZD200	0403-000252	DIODE-ZENER	BZX84C3V6.3-4-3.8V,350MW,SOT-23,TP	1	SNA	
ZD20	0403-000344	DIODE-ZENER	UZ3.9B,3.7-4.1V,500MW,DO-35,TP	1	SNA	
Q121	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-	1	SNA	
Q601	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-	1	SNA	
Q603	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-	1	SNA	
Q602	0501-002296	TR-SMALL SIGNAL	MMST2907A,PNP,200MW,SMT3,TP,100-3	1	SNA	
Q821	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q822	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q831	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q832	0504-001064	TR-DIGITAL	DTC114EKA,NPN,200mW,10K/10K,SOT-23,TP	1	SNA	
LED302	0601-001954	LED	SMD,YEL,1.6X0.8X0.8MM,587NM	1	SNA	
NTC100	1404-001316	THERMISTOR-NTC	18ohm,1.7A,3100K,14.5mW/C,0uF,13.5,	1	SNA	
NTC200.	1404-001316	THERMISTOR-NTC	18ohm,1.7A,3100K,14.5mW/C,0uF,13.5,	1	SNA	
VA100	1405-000154	VARISTOR	460VDC,2500A,17.5x7.5MM,TP	1	SNA	
VA101	1405-000154	VARISTOR	460VDC,2500A,17.5x7.5MM,TP	1	SNA	
VA102	1405-000154	VARISTOR	460VDC,2500A,17.5x7.5MM,TP	1	SNA	
R211	2002-001104	R-COMPOSITION	12Mohm,5%,1/2W,AA,TP,3.4x9MM	1	SNA	
R212	2002-001104	R-COMPOSITION	12Mohm,5%,1/2W,AA,TP,3.4x9MM	1	SNA	
R609	2007-000030	R-CHIP	560ohm,5%,1/8W,TP,2012	1	SNA	
R289	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA	
R234	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R235	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R227	2007-000116	R-CHIP	120ohm,5%,1/10W,TP,1608	1	SNA	
R129	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R202	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R249	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R301	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R302	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R303	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R304	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R306	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R307	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R308	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R309	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R412	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R601	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R603	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R605	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R701	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R706	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R831	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R861	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R862	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R863	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R864	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R865	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R702	2007-000355	R-CHIP	12Kohm,5%,1/8W,TP,2012	1	SNA	
R130	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R131	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R203	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R305	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R602	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R604	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	

■ MAIN PCB : DB93-06164A (cont.)

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
R610	2007-000468	R-CHIP	1KOHM,5%,1/8W,TP,2012	1	SNA	
R703	2007-000468	R-CHIP	1KOHM,5%,1/8W,TP,2012	1	SNA	
R705	2007-000468	R-CHIP	1KOHM,5%,1/8W,TP,2012	1	SNA	
R832	2007-000468	R-CHIP	1KOHM,5%,1/8W,TP,2012	1	SNA	
R294	2007-000477	R-CHIP	1MOHM,5%,1/8W,TP,2012	1	SNA	
R704	2007-000493	R-CHIP	2.2KOHM,5%,1/8W,TP,2012	1	SNA	
R206	2007-000766	R-CHIP	330OHM,5%,1/8W,TP,2012	1	SNA	
R248	2007-000766	R-CHIP	330OHM,5%,1/8W,TP,2012	1	SNA	
R405	2007-000766	R-CHIP	330OHM,5%,1/8W,TP,2012	1	SNA	
R406	2007-000766	R-CHIP	330OHM,5%,1/8W,TP,2012	1	SNA	
R407	2007-000766	R-CHIP	330OHM,5%,1/8W,TP,2012	1	SNA	
R866	2007-000766	R-CHIP	330OHM,5%,1/8W,TP,2012	1	SNA	
R410	2007-000872	R-CHIP	4.7KOHM,5%,1/8W,TP,2012	1	SNA	
R606	2007-000872	R-CHIP	4.7KOHM,5%,1/8W,TP,2012	1	SNA	
R841	2007-000872	R-CHIP	4.7KOHM,5%,1/8W,TP,2012	1	SNA	
R842	2007-000872	R-CHIP	4.7KOHM,5%,1/8W,TP,2012	1	SNA	
R607	2007-000931	R-CHIP	470OHM,5%,1/8W,TP,2012	1	SNA	
R608	2007-000931	R-CHIP	470OHM,5%,1/8W,TP,2012	1	SNA	
R216	2007-000938	R-CHIP	47KOHM,1%,1/8W,TP,2012	1	SNA	
R217	2007-000938	R-CHIP	47KOHM,1%,1/8W,TP,2012	1	SNA	
R205	2007-000947	R-CHIP	47OHM,5%,1/8W,TP,2012	1	SNA	
R121	2007-001041	R-CHIP	56KOHM,5%,1/4W,TP,3216	1	SNA	
R122	2007-001041	R-CHIP	56KOHM,5%,1/4W,TP,3216	1	SNA	
R123	2007-001041	R-CHIP	56KOHM,5%,1/4W,TP,3216	1	SNA	
R124	2007-001041	R-CHIP	56KOHM,5%,1/4W,TP,3216	1	SNA	
R125	2007-001041	R-CHIP	56KOHM,5%,1/4W,TP,3216	1	SNA	
R126	2007-001041	R-CHIP	56KOHM,5%,1/4W,TP,3216	1	SNA	
R127	2007-001041	R-CHIP	56KOHM,5%,1/4W,TP,3216	1	SNA	
R128	2007-001041	R-CHIP	56KOHM,5%,1/4W,TP,3216	1	SNA	
R401	2007-001067	R-CHIP	6.8KOHM,1%,1/8W,TP,2012	1	SNA	
R402	2007-001067	R-CHIP	6.8KOHM,1%,1/8W,TP,2012	1	SNA	
R403	2007-001067	R-CHIP	6.8KOHM,1%,1/8W,TP,2012	1	SNA	
C212	2201-000983	C-CERAMIC,DISC	1NF,10%,2KV,Y5P,TP,9X5MM,7.5	1	SNA	
C211	2201-000987	C-CERAMIC,DISC	2.2NF,20%,400V,Y5U,BK,12.5X6MM,10	1	SNA	
C211-1	2201-000987	C-CERAMIC,DISC	2.2NF,20%,400V,Y5U,BK,12.5X6MM,10	1	SNA	
C203	2201-002193	C-CERAMIC,DISC	0.082NF, 10%,3000V,SL,-8.5 X 3.5	1	SNA	
C204	2201-002193	C-CERAMIC,DISC	0.082NF, 10%,3000V,SL,-8.5 X 3.5	1	SNA	
C213	2202-000109	C-CERAMIC,MLC-AXIAL	100NF,+80-20%,50V,Y5V,TP,1.9X	1	SNA	
C228	2203-000189	C-CER,CHIP	100NF,+80-20%,25V,Y5V,TP,1608,	1	SNA	
C230	2203-000189	C-CER,CHIP	100NF,+80-20%,25V,Y5V,TP,1608,	1	SNA	
C233	2203-000189	C-CER,CHIP	100NF,+80-20%,25V,Y5V,TP,1608,	1	SNA	
C302	2203-000189	C-CER,CHIP	100NF,+80-20%,25V,Y5V,TP,1608,	1	SNA	
C303	2203-000189	C-CER,CHIP	100NF,+80-20%,25V,Y5V,TP,1608,	1	SNA	
C311	2203-000189	C-CER,CHIP	100NF,+80-20%,25V,Y5V,TP,1608,	1	SNA	
C313	2203-000189	C-CER,CHIP	100NF,+80-20%,25V,Y5V,TP,1608,	1	SNA	
C121	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C201	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C202	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C207	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C208	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C210	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C304	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C305	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C306	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C307	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	

■ MAIN PCB : DB93-06164A (cont.)

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C308	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C309	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C310	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C801	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C802	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C803	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C804	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C805	2203-000192	C-CER,CHIP	100NF,+80-20%,50V,Y5V,TP,2012,	1	SNA	
C410	2203-000206	C-CER,CHIP	100NF,10%,50V,X7R,2012	1	SNA	
C301	2203-000257	C-CER,CHIP	10NF,10%,50V,X7R,TP,1608	1	SNA	
C312	2203-000257	C-CER,CHIP	10NF,10%,50V,X7R,TP,1608	1	SNA	
C861	2203-000257	C-CER,CHIP	10NF,10%,50V,X7R,TP,1608	1	SNA	
C862	2203-000257	C-CER,CHIP	10NF,10%,50V,X7R,TP,1608	1	SNA	
C863	2203-000257	C-CER,CHIP	10NF,10%,50V,X7R,TP,1608	1	SNA	
C864	2203-000257	C-CER,CHIP	10NF,10%,50V,X7R,TP,1608	1	SNA	
C296	2203-000440	C-CER,CHIP	1NF,10%,50V,X7R,TP,1608,-	1	SNA	
C501	2203-000440	C-CER,CHIP	1NF,10%,50V,X7R,TP,1608,-	1	SNA	
C831	2203-000440	C-CER,CHIP	1NF,10%,50V,X7R,TP,1608,-	1	SNA	
C832	2203-000440	C-CER,CHIP	1NF,10%,50V,X7R,TP,1608,-	1	SNA	
C122	2203-001562	C-CER,CHIP	10NF,+80-20%,50V,Y5V,TP,2012	1	SNA	
C123	2203-001562	C-CER,CHIP	10NF,+80-20%,50V,Y5V,TP,2012	1	SNA	
C702	2203-001562	C-CER,CHIP	10NF,+80-20%,50V,Y5V,TP,2012	1	SNA	
C227	2203-005249	C-CER,CHIP	100NF,10%,50V,X7R,TP,1608,-	1	SNA	
C247	2203-005249	C-CER,CHIP	100NF,10%,50V,X7R,TP,1608,-	1	SNA	
C286	2203-005249	C-CER,CHIP	100NF,10%,50V,X7R,TP,1608,-	1	SNA	
C289	2203-005249	C-CER,CHIP	100NF,10%,50V,X7R,TP,1608,-	1	SNA	
C401	2203-005249	C-CER,CHIP	100NF,10%,50V,X7R,TP,1608,-	1	SNA	
C402	2203-005249	C-CER,CHIP	100NF,10%,50V,X7R,TP,1608,-	1	SNA	
C403	2203-005249	C-CER,CHIP	100NF,10%,50V,X7R,TP,1608,-	1	SNA	
C411	2203-005249	C-CER,CHIP	100NF,10%,50V,X7R,TP,1608,-	1	SNA	
C500	2203-005249	C-CER,CHIP	100NF,10%,50V,X7R,TP,1608,-	1	SNA	
C865	2203-005249	C-CER,CHIP	100NF,10%,50V,X7R,TP,1608,-	1	SNA	
CX101	2301-001220	C-FILM,LEAD-PPF	100NF,10%,275V,BK,18*6*12	1	SNA	
CX100	2301-001439	C-FILM,LEAD-PEF	220NF,10%,275V,BK,18x10x15.8MM	1	SNA	
C701	2401-000027	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	1	SNA	
C209	2401-000037	C-AL	470uF,20%,16V,GP,TP,8x11.5,5,-40TO+85C	1	SNA	
C206	2401-000038	C-AL	470uF,20%,25V,GP,TP,10x12.5MM,	1	SNA	
C200	2401-000345	C-AL	100uF,20%,450V,GP,TP,25x31,10M	1	SNA	
C214	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C205	2401-001428	C-AL	470uF,20%,50V,GP,TP,10x20,5	1	SNA	
C601	2401-002300	C-AL	47uF,20%,50V,GP,TP,6.3x11,5	1	SNA	
X301	2802-001179	RESONATOR-CERAMIC	4MHZ,0.5%,BK,8X3X5.5MM	1	SNA	
BZ601	3002-001139	BUZZER-PIEZO	80DB,9V ,-,2.0KHZ,-	1	SNA	
RY701	3501-001154	RELAY-MINIATURE	12VDC,200mW,3000mA,1FORMA,10MS,10M	1	SNA	
F101-1	3601-000248	FUSE-CARTRIDGE	250V,2A,TIME-LAG,GLASS,5x20MM	1	SNA	
F200	3601-001308	FUSE	250V,1.6A,TIME-LAG,PLASTIC,8.4x7.6MM	1	SNA	
LED301	0601-002345	LED	SMD,RED,1.6x0.8x0.55MM,660NM,1.6x0.8x0.55MM	1	SNA	
T200	DB26-00077A	TRANS SWITCHING	15W268P,HP-C180V,310V,200~260V,PL-	1	SNA	
L100	DB27-00019A	COIL CHOKE	SSC1905200B,LINE FILTER,20mH,+50%,-30%	1	SNA	
PCB-BOARD	DB41-00687A	PCB-BOARD	190*90,FR-4,T1.6	1	SNA	
CY100	2201-000158	C-CER,DISC	10NF,+80-20%,3kV,Y5V,TBK,10MM	1	SNA	
CY101	2201-000158	C-CER,DISC	10NF,+80-20%,3kV,Y5V,TBK,10MM	1	SNA	
D201	0402-001194	DIODE-RECTIFIER	UG2D,200V,2A,-,TP	1	SNA	
BD200	0402-001227	DIODE-BRIDGE	D3SBA60,600V,2.3A,SIP-4,BK	1	SNA	
D203	0402-001377	DIODE-RECTIFIER	UG4D,200V,4A,TO-220F,TP	1	SNA	
D204	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA	

■ MAIN PCB : DB93-06164A (cont.)

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
CD219	0406-001163	DIODE-TVS	CDS3C05GTA,6.4V/-/-,SMD	1	SNA	
CD286	0406-001163	DIODE-TVS	CDS3C05GTA,6.4V/-/-,SMD	1	SNA	
CD500	0406-001163	DIODE-TVS	CDS3C05GTA,6.4V/-/-,SMD	1	SNA	
CD501	0406-001163	DIODE-TVS	CDS3C05GTA,6.4V/-/-,SMD	1	SNA	
CD802	0406-001163	DIODE-TVS	CDS3C05GTA,6.4V/-/-,SMD	1	SNA	
CD301	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4V/-/0.7V,600W,SMB	1	SNA	
CD334	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4V/-/0.7V,600W,SMB	1	SNA	
IC801	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC802	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC804	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC805	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
PC410	0604-001002	PHOTO-COUPLER	TR,100-600%,200mW,SOP-4,TP	1	SNA	
PC121	0604-001003	PHOTO-COUPLER	TR,50-150%,200mW,DIP-4,ST	1	SNA	
IC200	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA	
PC501	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA	
PC502	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA	
IC303	0801-000393	IC-CMOS LOGIC	74HC86,OR GATE,SOP,14P,150MIL,QUAD,S	1	SNA	
IC803	1003-001462	IC-SOURCE DRIVER	TD62783AFW,SOL,18P,-8,-500mA,TP	1	SNA	
IC301	1006-001371	IC-BUS TRANSCEIVER	1487,SO,8P,4.9x3.8 MM,SINGLE,S	1	SNA	
IC302	1006-001371	IC-BUS TRANSCEIVER	1487,SO,8P,4.9x3.8 MM,SINGLE,S	1	SNA	
IC202	1103-001175	IC-EEPROM	93LC56,128x16,SOP,8P,5x4MM,2.5/6.0V,-40T	1	SNA	
TNY200	1203-002662	IC-PWM CONTROLLER	TNY268P,DIP,8P,9.65X6.35MM,PLAS	1	SNA	
R209	2001-000020	R-CARBON(S)	220HM,5%,1/2W,AA,TP,2.4X6.4MM	1	SNA	
R210	2001-000020	R-CARBON(S)	220HM,5%,1/2W,AA,TP,2.4X6.4MM	1	SNA	
R200	2003-000141	R-METAL OXIDE	100KOHM,5%,1W,AA,TP,4.3x12MM	1	SNA	
R207	2003-000448	R-METAL OXIDE(S)	100KOHM,5%,2W,AA,TP,4x12MM	1	SNA	
RY301	3501-001248	RELAY-MINIATURE	12V,-,11.7MA,DPDT,4MS,4MS	1	SNA	
CN42	3711-000015	CONNECTOR-HEADER	BOX,2P,1R,2.5MM,STRAIGHT,SN,WHT	1	SNA	
CN33	3711-000176	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96MM,STRAIGHT	1	SNA	
CN31	3711-000177	CONNECTOR-HEADER	1WALL,2P,1R,3.96MM,STRAIGHT,SN	1	SNA	
CN32	3711-000178	CONNECTOR-HEADER	1WALL,2P,1R,3.96MM,STRAIGHT,SN,W	1	SNA	
CN73	3711-000296	CONNECTOR-HEADER	1WALL,6P,1R,3.96MM,STRAIGHT,SN	1	SNA	
CN70	3711-000744	CONNECTOR-HEADER	BOX,1P,1R,8MM,STRAIGHT,NI,WHT	1	SNA	
CN41	3711-000940	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5MM,STRAIGHT,SN	1	SNA	
CN45	3711-000941	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5MM,STRAIGHT,SN	1	SNA	
CN82	3711-000998	CONNECTOR-HEADER	BOX,5P,1R,2.5MM,STRAIGHT,SN, RED	1	SNA	
CN85	3711-000997	CONNECTOR-HEADER	BOX,5P,1R,2.5MM,STRAIGHT,SN,BLU	1	SNA	
CN86	3711-002001	BOX,10P,1R,2MM,STRAIGHT,SN,BLK		1	SNA	
CN20	3711-003873	CONNECTOR-HEADER	BOX,7P,1R,2MM,STRAIGHT,SN	1	SNA	
CN10	3711-005716	CONNECTOR-HEADER	BOX,10P,1R,2MM,STRAIGHT,SN,BLK	1	SNA	
CN83	3711-004182	CONNECTOR-HEADER	BOX,10P,1R,2MM,STRAIGHT,SN,NTR	1	SNA	
CN81	3711-004484	CONNECTOR-HEADER	BOX,5P,1R,2MM,STRAIGHT,SN	1	SNA	
CN100	3711-006053	HEADER-BOARD TO BOARD	BOX,2P,1R,7.92MM,STRAIGHT,S	1	SNA	
CN75	3711-006056	HEADER-BOARD TO BOARD	BOX,2P,1R,7.92MM,STRAIGHT,S	1	SNA	
CN87	3711-006095	CONNECTOR-HEADER	BOX,2P,1R,2MM,STRAIGHT,SN,BLU	1	SNA	
DS101	4715-001093	SURGE ABSORBER	3600V,20%,2000A,-,AXIAL	1	SNA	
IC104	DB91-00597A		QFP-MICOM	1	SNA	
	DB09-00535A	S3F4A1H		1	SNA	
F100	DB61-00924A	FH-51B		1	SNA	

■ Damper PCB : DB93-06169A

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
PCB BOARD	DB41-00685A	PCB-BOARD	T1.6,FR-1	1	SNA	
SW01	3408-000341	SLIDE Switch		1	SNA	
CN01	3711-000056	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5mm,ANGLE,SN	1	SNA	

■ PCB SUB ADDRESS: DB93-04640C

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
D900,D901,D902, D903,D904,D905, D906,D907,D908, D909,D910,D911, D912,D913,D914, D915,D916,D917, D918,D919,D920, D921,D922,D923, D924,D925,D926, D927	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP(DB93-04640C)	28	SNA	
SW05,SW06,SW07	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	3	SNA	
CN61	3711-000760	HEADER-BOARD TO CABLE	BOX,20P,2R,2MM,ANGLE,SN,BLK	1	SNA	
SW04	DB34-00009A	SWITCH-DIGITAL	PT65 103,ROTARY DIP,-,DC24V Max,0.4VA,50mOhm Max,- ,BULK,10mm*10mm,straight,-,-,-	1	SNA	
SW02	DB34-00010A	SWITCH-DIGITAL	PT65 503,ROTARY DIP,DC24V Max,0.4VA,50mO hm,MAX,BULK,10mm*10mm,straight	1	SNA	
PCB	DB41-00566A	PCB SUB	FJM-VIVACE,FR-4,2,1.0,T1.6,50*35,Q,21,-,-	1	SNA	
CN83	DB93-06766A	ASSY C/W **		1	SNA	

■ Display PCB : DB93-06168A

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
D01	0401-000005	1N4148	DIODE-SWITCHING;1N4148,75V,150mA,DO-35,TP	1	SNA	
LD101,LD201,L D301,LD401,LD 501	0601-001736	LED	LED;ROUND,WHITE,5X8.5MM,470NM,5X8.5MM	5	SNA	
MODULE	0609-001204	MODULE REMOCON	MODULE REMOCON;HORIZONTAL,6.5MM,TR	1	SNA	
R01,R02,R03	2007-000931	R-CHIP	R-CHIP;470OHM,5%,1/8W,TP,2012	3	SNA	
R04	2007-000947	R-CHIP	R-CHIP;470OHM,5%,1/8W,TP,2012	1	SNA	
C03	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C02	2203-000444	C-CER,CHIP	C-CER,CHIP,1nF,10%,50V,X7R,2012	1	SNA	
C01	2401-003107	C-AL	C-AL;47uF,20%,16V,GP,TP,5x7.5	1	SNA	
J01,J02,J03	3812-001283	JUMPER	TCWA,300V,52MM(TAPPING),1/0.6MM	3	SNA	
PCB BOARD	DB41-00684A	-	PCB-BOARD;20.2*240,T1.6,FR-1	1	SNA	
AD01,AD02, AD03,AD04	0406-001163	DIODE-TVS	DIODE-TVS;CDS3C05GTA,6.4V/-/-,SMD	4	SNA	
CN01	3711-004531	SMAW200-10	HEADER-BOARD TO CABLE;BOX,10P,1R,2MM,ANGLE,SN,WHT	1	SNA	
T_SW	DB95-00898A	TOUCH_SENSOR	ASSY-TOUCH SENSOR MODULE;CRYSTAL-PJT,TOUCH SENSOR	1	SNA	

6-2-2 Outdoor Unit**■INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1)**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
AC_L	3712-001139	CONNECTOR-TERMINAL	TAB,MALE,-,6.35x0.8mm	1	SNA	
AC_N	3712-001139	CONNECTOR-TERMINAL	TAB,MALE,-,6.35x0.8mm	1	SNA	
BD01	DB98-16586A	ASS'Y-DIODE	-----	1	SNA	
C001	2301-000141	C-FILM,LEAD-PEF	10nF,10%,630V,TP,16x11x7.5mm,5	1	SNA	
C101	DB98-21655A	ASS'Y-CAP	KFR-35(25)GW,KMH400VS470	1	SNA	
C102	DB98-21655A	ASS'Y-CAP	KFR-35(25)GW,KMH400VS470	1	SNA	
C103	DB98-21655A	ASS'Y-CAP	KFR-35(25)GW,KMH400VS470	1	SNA	
C104	2401-000470	C-AL	10uF,20%,450V,GP,TP,13x20mm,5m	1	SNA	
C105	2201-000322	C-CERAMIC,DISC	2.2nF,10%,2kV,Y5P,TP,13x5mm,10	1	SNA	
C106	2201-000322	C-CERAMIC,DISC	2.2nF,10%,2kV,Y5P,TP,13x5mm,10	1	SNA	
C107	2401-001552	C-AL	47uF,20%,35V,GP,TP,6.3x11,2.5	1	SNA	
C108	2203-001414	C-CER,CHIP	330nF,10%,50V,X7R,2012	1	SNA	
C109	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C110	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA	
C112	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C113	2203-005261	C-CER,CHIP	1000nF,10%,25V,X7R,3216	1	SNA	
C114	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA	
C116	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C118	2401-002300	C-AL	47uF,20%,50V,GP,TP,6.3x11,5mm	1	SNA	
C119	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA	
C121	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C122	2203-000477	C-CER,CHIP	1000nF,+80-20%,16V,Y5V,TP,2012	1	SNA	
C123	2401-000303	C-AL	100uF,20%,25V,GP,TP,6.3x11,5	1	SNA	
C201	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C202	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C203	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C204	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C205	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C206	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C301	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608,-	1	SNA	
C318	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608,-	1	SNA	
C319	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608,-	1	SNA	
C320	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608,-	1	SNA	
C321	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608,-	1	SNA	
C401	2203-000236	C-CER,CHIP	0.1nF,5%,50V,C0G,1608	1	SNA	
C402	2203-000236	C-CER,CHIP	0.1nF,5%,50V,C0G,1608	1	SNA	
C403	2203-000236	C-CER,CHIP	0.1nF,5%,50V,C0G,1608	1	SNA	
C404	2203-000236	C-CER,CHIP	0.1nF,5%,50V,C0G,1608	1	SNA	
C405	2203-000236	C-CER,CHIP	0.1nF,5%,50V,C0G,1608	1	SNA	
C406	2203-000236	C-CER,CHIP	0.1nF,5%,50V,C0G,1608	1	SNA	

Outdoor Unit (cont.)**■INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1) (cont.)**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C407	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	SNA	
C408	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C409	2401-002300	C-AL	47μF,20%,50V,GP,TP,6.3x11,5mm	1	SNA	
C410	2401-002300	C-AL	47μF,20%,50V,GP,TP,6.3x11,5mm	1	SNA	
C411	2401-002300	C-AL	47μF,20%,50V,GP,TP,6.3x11,5mm	1	SNA	
C412	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C413	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C414	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C415	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C416	2401-002598	C-AL	220uF,20%,50V,GP,TP,10x16,5	1	SNA	
C417	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C418	2306-000123	C-FILM,LEAD-PPF	100nF,5%,630V,BK,26x16.5x8.5,2	1	SNA	
C419	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C421	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	SNA	
C451	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C452	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C453	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C454	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C501	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C552	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C553	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C554	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C555	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C556	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C559	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C560	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C561	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C562	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C563	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C564	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C565	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C567	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C568	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C569	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C570	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C574	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C575	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C576	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C577	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C602	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	

Outdoor Unit (cont.)**■INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1) (cont.)**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C603	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C604	2203-000444	C-CER,CHIP	1nF,10%,50V,X7R,2012	1	SNA	
C802	2203-000609	C-CER,CHIP	22nF,10%,50V,X7R,TP,2012	1	SNA	
C803	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C806	2203-000444	C-CER,CHIP	1nF,10%,50V,X7R,2012	1	SNA	
C900	2203-006104	C-CER,CHIP	1000nF,10%,50V,X7R,3225	1	SNA	
C901	2201-000322	C-CERAMIC,DISC	2.2nF,10%,2kV,Y5PTP,13x5mm,10	1	SNA	
C902	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C905	2401-002598	C-AL	220uF,20%,50V,GP,TP,10x16,5	1	SNA	
C906	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C907	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
CN01	3711-005654	HEADER-BOARD TO CABLE	1WALL,7P,1R,3.96mm,ANGLE,SN,WHT	1	SNA	
CN15	3711-003843	HEADER-BOARD TO CABLE	BOX,8P,1R,2mm,STRAIGHT,SN,WHT	1	SNA	
CN34	3711-004182	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	
D101	DB98-16591A	ASS'Y-DIODE RECTIFIER	-----	1	SNA	
D102	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA	
D103	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA	
D104	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA	
D105	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA	
D106	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA	
D201	0407-000123	DIODE-ARRAY	DAN202K,80V,100mA,CA2-3,SOT-23,TP	1	SNA	
D401	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA	
D402	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA	
D403	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA	
D451	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D452	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D453	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D454	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
IC01	DB91-00532A	ASS'Y-MIC	Montblanc1 OUTDOOR Inv Micom,MN103FA7K, 80P, ROM Size: 256K bytes	1	SNA	
IC01	DB91-00532B	IC MICOM	MN103FA7K,-80P,+5V,10 MHz,Flash Memory, ROM Size: 256K bytes,32 Bit,32 Bit,QFP,QFP,14x14 mm, 32 Bit,-40~+85	1	SNA	
IC11	1203-003527	IC-PWM CONTROLLER	TOP243,DIP7P9.83x6.6mm,PLASTIC,-0.3/700V, 25W,-40to+150C,1.44A,-,-	1	SNA	
IC12	0604-001172	PHOTO-COUPLER	TR,100-300,200mW,SOP,TP	1	SA	
IC13	1203-002948	IC-POSI.ADJUST REG.	TL431ACD,SOP,8P,4.9X3.9MM,PLASTIC,36V,1.5W, 0TO+70C,150mA,2.44/2.55V,TP	1	SNA	
IC16	1203-000274	IC-POSI.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA	
IC19	1203-000274	IC-POSI.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA	

Outdoor Unit (cont.)

■ INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1) (cont.)

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
IC21	1202-000104	IC-VOLTAGE COMP.	393,SOP,8P,150MIL,DUAL,36V,CMOS,PLASTIC, 18V,780mW,0to+70C,18V,5mV,250mA,50NA,30	1	SNA	
IC451	DB32-00173A	SENSOR MAG-CT SENSOR	ACS712,5HP INVERTER,-,40~150,-,30A,8V,Sinusoidal	1	SNA	
IC452	DB32-00173A	SENSOR MAG-CT SENSOR	ACS712,5HP INVERTER,-,40~150,-,30A,8V,Sinusoidal	1	SNA	
IC55	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC61	0604-001172	PHOTO-COUPLER	TR,100-300,200mW,SOP,TP	1	SA	
IC62	0604-001172	PHOTO-COUPLER	TR,100-300,200mW,SOP,TP	1	SA	
IC701	DB91-00562A	ASS'Y-EEPROM	UH035EAV1,93LC66, SSEC	1	SNA	
IC701	DB91-00562B	ASS'Y-EEPROM	UH026EAV1,93LC66, SSEC	1	SNA	
IC701	1103-001038	IC-EEPROM	93LC66,4KBIT,256X16BIT,SOP,8P,5x4mm,-2.5/5.5V, -40TO+85C,1uA,TP	1	SNA	
IC81	DB98-20678A	ASS'Y-PHOTOCOUPLER	KFR-35(25)GW/GPI,TLP351	1	SNA	
IPM	DB95-00599A	ASS'Y-IPM	KFR-35GW/GPI,INVERTER	1	SNA	
LED1	DB98-16601A	ASS'Y-LED RED	-----	1	SNA	
LED2	DB98-16600A	ASS'Y-LED GREEN	-----	1	SNA	
LED3	DB98-16602A	ASS'Y-LED YEL	-----	1	SNA	
PCB	DB41-00652A	PCB MAIN-INV	MH040FXCA2A,CEM-3,2,V0.1,T1.6,16mmx14mm, -1,PE50,-,SSEC	1	SNA	
PT02	DB26-00075A	TRANS SWITCHING	PT-50,AQV18FA,-,90~275V,FERRITE,-,EI2218,50/60Hz, UL,0.7mH,--,15V,12V,7.8V,-	1	SNA	
Q801	0504-000127	TR-DIGITAL	FJV3102RMTF,NPN,200mW,10K/10K,SOT-23,TP	1	SNA	
Q803	0508-001132	TR-IGBT	-600V,40A,2.6V,1200UJ,160W,TO-3P	1	SNA	
Q901	DB13-00003A	IC DRIVER GATE	-,SOT-23,--,1P,1P,0.2mm,2.93x1.3mm	1	SNA	
Q902	0504-000127	TR-DIGITAL	FJV3102RMTF,NPN,200mW,10K/10K,SOT-23,TP	1	SNA	
R001	2006-001080	R-CEMENT(S)	200ohm,5%,5W,CB,BK,13x9x25.5mm	1	SNA	
R101	2003-000855	R-METAL OXIDE(S)	47Kohm,5%,3W,AA,TP,6x16mm	1	SNA	
R102	2007-001074	R-CHIP	6.8ohm,5%,1/8W,TP,2012	1	SNA	
R103	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R104	2007-000686	R-CHIP	3.3Kohm,5%,1/8W,TP,2012	1	SNA	
R105	2007-001222	R-CHIP	9.09Kohm,1%,1/8W,TP,2012	1	SNA	
R106	2007-000263	R-CHIP	1.82Kohm,1%,1/8W,TP,2012	1	SNA	
R107	2003-000708	R-METAL OXIDE(S)	47ohm,5%,1W,AA,TP,3.3x9mm	1	SNA	
R110	2007-008023	R-CHIP	100Kohm,5%,1W,TP,6432	1	SNA	
R111	2007-008023	R-CHIP	100Kohm,5%,1W,TP,6432	1	SNA	
R112	2007-008023	R-CHIP	100Kohm,5%,1W,TP,6432	1	SNA	
R113	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA	
R114	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA	
R115	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA	
R116	2007-000385	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	SNA	
R201	2007-002667	R-CHIP	90.9Kohm,1%,1/4W,TP,3216	1	SNA	

Outdoor Unit (cont.)**■INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1) (cont.)**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
R202	2007-002667	R-CHIP	90.9Kohm,1%,1/4W,TP,3216	1	SNA	
R203	2007-002667	R-CHIP	90.9Kohm,1%,1/4W,TP,3216	1	SNA	
R204	2007-002667	R-CHIP	90.9Kohm,1%,1/4W,TP,3216	1	SNA	
R205	2007-000263	R-CHIP	1.82Kohm,1%,1/8W,TP,2012	1	SNA	
R206	2007-000263	R-CHIP	1.82Kohm,1%,1/8W,TP,2012	1	SNA	
R207	2007-000080	R-CHIP	2Kohm,5%,1/10W,TP,1608	1	SNA	
R208	2007-000080	R-CHIP	2Kohm,5%,1/10W,TP,1608	1	SNA	
R209	2007-000080	R-CHIP	2Kohm,5%,1/10W,TP,1608	1	SNA	
R315	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R323	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	1	SNA	
R324	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R325	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R327	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R328	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R342	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	1	SNA	
R407	2007-000781	R-CHIP	33ohm,5%,1/8W,TP,2012	1	SNA	
R408	2007-000781	R-CHIP	33ohm,5%,1/8W,TP,2012	1	SNA	
R409	2007-000781	R-CHIP	33ohm,5%,1/8W,TP,2012	1	SNA	
R413	2007-000082	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	1	SNA	
R415	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R418	2006-001013	R-CEMENT	0.02ohm,5%,7W,CA,BK,35x9.5x9.5mm	1	SNA	
R419	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R420	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R421	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R422	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R423	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R424	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R425	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R462	2007-000986	R-CHIP	5.6ohm,5%,1/8W,TP,2012	1	SNA	
R463	2007-000986	R-CHIP	5.6ohm,5%,1/8W,TP,2012	1	SNA	
R464	2007-000986	R-CHIP	5.6ohm,5%,1/8W,TP,2012	1	SNA	
R539	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA	
R540	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA	
R541	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA	
R552	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R553	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA	
R554	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R555	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R556	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	

Outdoor Unit (cont.)**■INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1) (cont.)**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
R558	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R560	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R561	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R562	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R563	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R566	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R567	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R573	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R574	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R601	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R602	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R603	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R604	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R605	2007-000586	R-CHIP	22Kohm,5%,1/8W,TP,2012	1	SNA	
R606	2007-000586	R-CHIP	22Kohm,5%,1/8W,TP,2012	1	SNA	
R805	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R806	2007-000950	R-CHIP	47ohm,5%,1/4W,TP,3216	1	SNA	
R807	2007-000553	R-CHIP	20ohm,5%,1/4W,TP,3216	1	SNA	
R808	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	1	SNA	
R901	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R902	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R906	2007-001071	R-CHIP	6.8Kohm,5%,1/8W,TP,2012	1	SNA	
R908	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
RY501	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FormA,10mS,10mS	1	SNA	
RY503	3501-001272	RELAY-POWER	12VDC,-,25000mA,1FormA,20mS,10mS	1	SNA	
XTAL	2802-001198	RESONATOR-CERAMIC	10MHz,0.5%,BK,8x3x5.5mm	1	SNA	
ZD200	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
ZD201	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
ZD451	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
ZD452	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
ZD501	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
ZD502	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
-	DB93-04334A	ASS'Y CONNECTOR WIRE	AQV24JAKCV,24K	1	SNA	
-	DB93-04336A	ASS'Y CONNECTOR WIRE	AQV12JAKCV,12K	1	SNA	
-	DB93-04349A	ASS'Y CONNECTOR WIRE-4WAY	AQV12JAKCV,12K_Out	1	SNA	
-	DB93-04350A	ASS'Y CONNECTOR WIRE	AQV12JAKCV,12K_OUT	1	SNA	

Outdoor Unit (cont.)**■MAIN PCB : DB93-06291B**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C301	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C302	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C303	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C304	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C305	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C306	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C310	2201-000154	C-CERAMIC,DISC	10nF,+80-20%,2kV,Y5P,TP,20x5mm,7.5	1	SNA	
C311	2201-000154	C-CERAMIC,DISC	10nF,+80-20%,2kV,Y5P,TP,20x5mm,7.5	1	SNA	
C312	2201-000154	C-CERAMIC,DISC	10nF,+80-20%,2kV,Y5P,TP,20x5mm,7.5	1	SNA	
C313	2201-000154	C-CERAMIC,DISC	10nF,+80-20%,2kV,Y5P,TP,20x5mm,7.5	1	SNA	
C505	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C510	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C511	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C512	2401-000287	C-AL	100uF,20%,16V,WT,TP,6.3x11.5	1	SNA	
C513	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C514	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C515	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C516	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C517	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C518	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C519	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C520	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C521	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C527	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C529	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C530	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C531	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C600	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C601	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C620	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C901	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C902	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C903	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
CD31	0406-001109	DIODE-TVS	SAC5.0,7.6/-/V,500W,DO-15	1	SNA	
CD32	0406-001109	DIODE-TVS	SAC5.0,7.6/-/V,500W,DO-15	1	SNA	
CD33	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-/7.07V,600W,SMB	1	SNA	
CD34	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-/7.07V,600W,SMB	1	SNA	
CN01	3711-000176	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96mm,STRAIGHT,SN,BLU	1	SNA	
CN03	3711-003873	HEADER-BOARD TO CABLE	BOX,7P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	
CN20	3711-004379	HEADER-BOARD TO CABLE	BOX,4P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	

Outdoor Unit (cont.)**■MAIN PCB : DB93-06291B (cont.)**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
CN21	3711-004182	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	
CN30	DB98-24921A	ASS'Y-HOOK WHT	UH035EAV,SMAW250A-06 WHT	1	SNA	
CN50	DB98-22299A	ASS'Y-HOOK WHT	INVERTER,SMAW250A-04 WHT	1	SNA	
CN51	DB98-22298A	ASS'Y-HOOK RED	INVERTER,SMAW250A-04 RED	1	SNA	
CN70	3711-003843	HEADER-BOARD TO CABLE	BOX,8P,1R,2mm,STRAIGHT,SN,WHT	1	SNA	
IC20	1006-001371	IC-LINE TRANSCEIVER	ISL3175EIBZ,SOIC,8P,6.2x5.0x1.75,1,REEL,PLASTIC, 3.3V,-40 to 85°C,0.5W,1,1,0.3/7V,-	1	SNA	
IC30	0801-000393	IC-CMOS LOGIC	74HC86,OR GATE,SOP,14P,150MIL,QUAD,ST,-, 2.0/6.0V,0.26V,-40to+85C,180mW,4.2V,1uA	1	SNA	
IC31	0604-001003	PHOTO-COUPLER	TR,50-150%,200mW,DIP-4,ST	1	SNA	
IC50	DB91-00583B	ASS'Y-MIC	GAUDI INVETER OUT MAIN MICOM,STM-0761-OS, MB90F823 ,80QFP,ROM 128K bytes	1	SNA	
IC54	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC55	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC56	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC57	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC59	1203-003334	IC-RESET	S-801,SOT-23,5P,2.9x1.6mm,PLASTIC,3.716/4.284V, 256mW,-,2.5mA,-,TP	1	SNA	
PCB	DB41-00644A	PCB MAIN-OUT	MH040FXCA2A,CEM-3,2,V0.1,T1.6,16mmx14mm, ,1,PE50,-,SSEC	1	SNA	
Q901	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q902	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q903	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q904	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
R301	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R302	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R303	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R304	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R306	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R307	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R308	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R309	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R310	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R311	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R312	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R313	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R314	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R315	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R414	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	
R499	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	

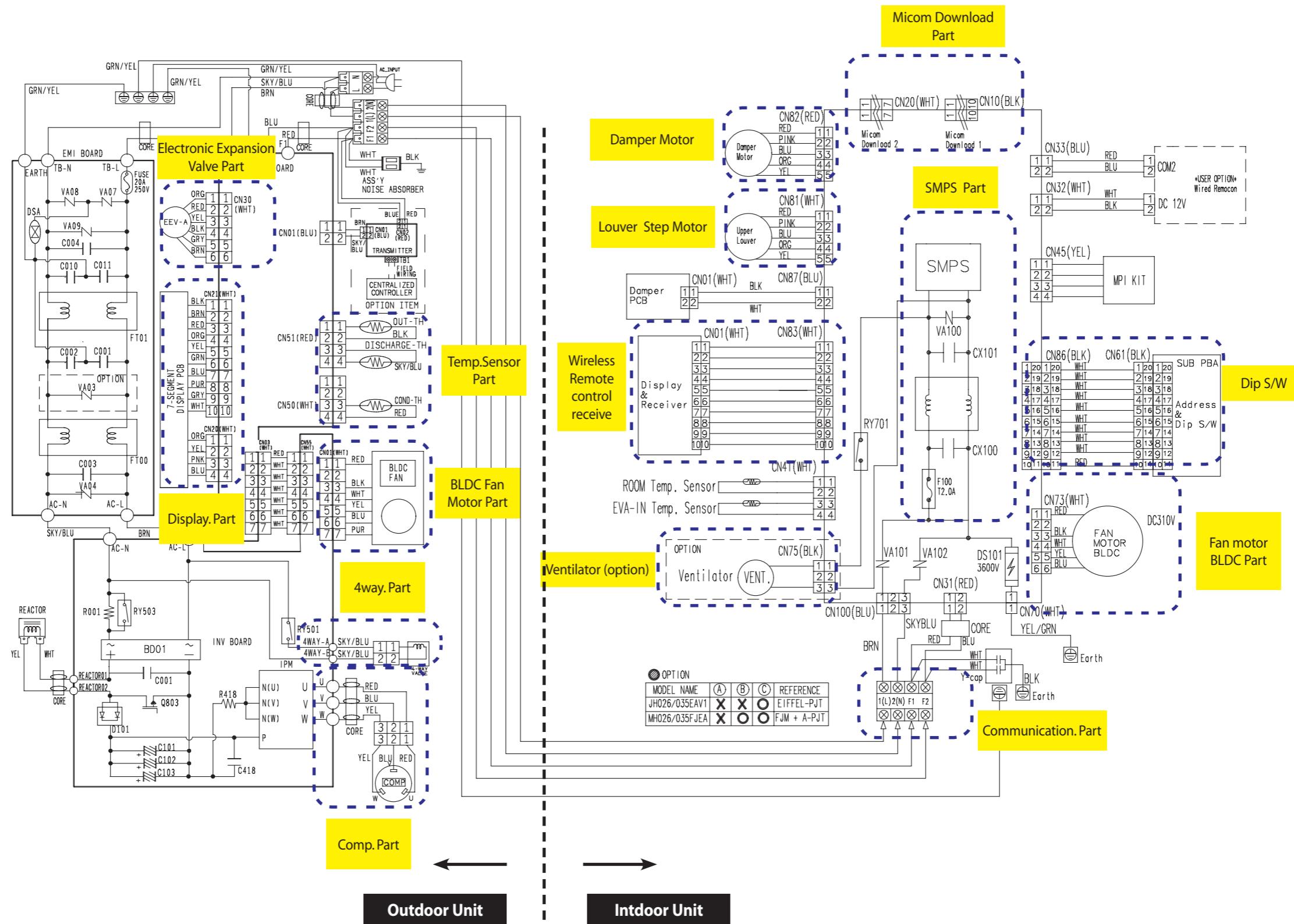
Outdoor Unit (cont.)**■MAIN PCB : DB93-06291B (cont.)**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
R500	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	
R501	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	
R502	2007-000614	R-CHIP	24Kohm,1%,1/10W,TP,1608	1	SNA	
R503	2007-000614	R-CHIP	24Kohm,1%,1/10W,TP,1608	1	SNA	
R504	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	
R505	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA	
R506	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA	
R507	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA	
R508	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA	
R509	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	SNA	
R510	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	SNA	
R511	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA	
R512	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R513	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	
R514	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	SNA	
R515	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	SNA	
R555	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R556	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	1	SNA	
R557	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R560	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R901	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R902	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R903	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R904	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R905	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R906	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R907	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R908	2007-001177	R-CHIP	8.2Kohm,5%,1/8W,TP,2012	1	SNA	
R909	2007-001177	R-CHIP	8.2Kohm,5%,1/8W,TP,2012	1	SNA	
R910	2007-001177	R-CHIP	8.2Kohm,5%,1/8W,TP,2012	1	SNA	
R911	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA	
R912	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA	
R913	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA	
RY31	3501-001248	RELAY-MINIATURE	12V,-11.7mA,DPDT,4mS,4mS	1	SNA	
XTAL51	2802-001179	RESONATOR-CERAMIC	4MHz,0.5%,BK,8x3x5.5mm	1	SNA	
-	DB39-00514F	CBF LEAD WIRE-EARTH	-,KFR-35(25)GW/GPI,-,200,-,-,-,GRN/YEL,-,-,-	1	SNA	
-	DB09-00338A	IC MICOM	MB90F823,-,80 P5 V,24 MHz,Flash Memory,-,24,16,QFP,QFP,14x20 mm,16,-40 ~ 85	1	SNA	
-	DB93-06571A	ASS'Y CONNECTOR WIRE-COMMUNICATION	UH035EAV1,SSEC,UL1007,AWG22,100÷10,RED,YH396-02VR,175024-1	1	SNA	

Outdoor Unit (cont.)**■EMI PCB : DB93-05836A**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C001	2201-000540	C-CERAMIC,DISC	4.7nF,20%,2kV,Y5U,BK,12x5mm,10	1	SNA	
C002	2201-000540	C-CERAMIC,DISC	4.7nF,20%,2kV,Y5U,BK,12x5mm,10	1	SNA	
C003	2301-001285	C-FILM,LEAD-PPF	680nF,10%,275V,BK,31x11x21mm,27.5	1	SNA	
C004	2301-001285	C-FILM,LEAD-PPF	680nF,10%,275V,BK,31x11x21mm,27.5	1	SNA	
C010	2201-000540	C-CERAMIC,DISC	4.7nF,20%,2kV,Y5U,BK,12x5mm,10	1	SNA	
C011	2201-000540	C-CERAMIC,DISC	4.7nF,20%,2kV,Y5U,BK,12x5mm,10	1	SNA	
DSA	DB47-00016A	POSISTOR	DSA-332mA,2pF MAX,100Mohm,ASM-3500	1	SNA	
FT00	DB98-17990A	ASS'Y-EMI FILTER	SH12BWH,LS615044	1	SNA	
FT01	DB98-17990A	ASS'Y-EMI FILTER	SH12BWH,LS615044	1	SNA	
FUSE	3601-001159	FUSE-CARTRIDGE	250V,20A,SLOW-BLOW,CERAMIC,31.8x6.35mm	1	SNA	
PCB	DB41-00589A	PCB-EMI	MH040FXEA2A,FR-1,1,-,T1.6,-,-,-,SSEC	1	SNA	
VA04	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
VA07	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
VA08	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
VA09	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
-	3602-001038	FUSE-CLIP	250V,30A,10mohm	2	SNA	
-	6042-001009	EYELET	ID1.8,OD2.2,L3,-,BRASS	8	SNA	
-	6042-001012	EYELET	ID3,OD5,L4.3,YEL,Cu	4	SNA	
-	DB39-00514F	CBF LEAD WIRE-EARTH	-,KFR-35(25)GW/GPI,-,200,-,-,GRN/YEL,-,-	1	SNA	
-	DB39-00961T	CBF LEAD WIRE	-,SH12BWH,-,120,10A,230V/50Hz,-,BRW,-,-,INVERTER	1	SNA	
-	DB39-00961U	CBF LEAD WIRE	-,SH12BWH,-,120,10A,230V/50Hz,-,BLU,-,-,INVERTER	1	SNA	
-	DB93-04908A	ASS'Y CONNECTOR WIRE-POWER	MH040FXEA4A, FJM1,AWG14,UL1015,4,270/290,270/290,YEL / WHT,16,ST730620-3,SIN-41T-2.4S,-,-,270/290,270/290,AWG14,UL10	1	SNA	

7. Wiring Diagram

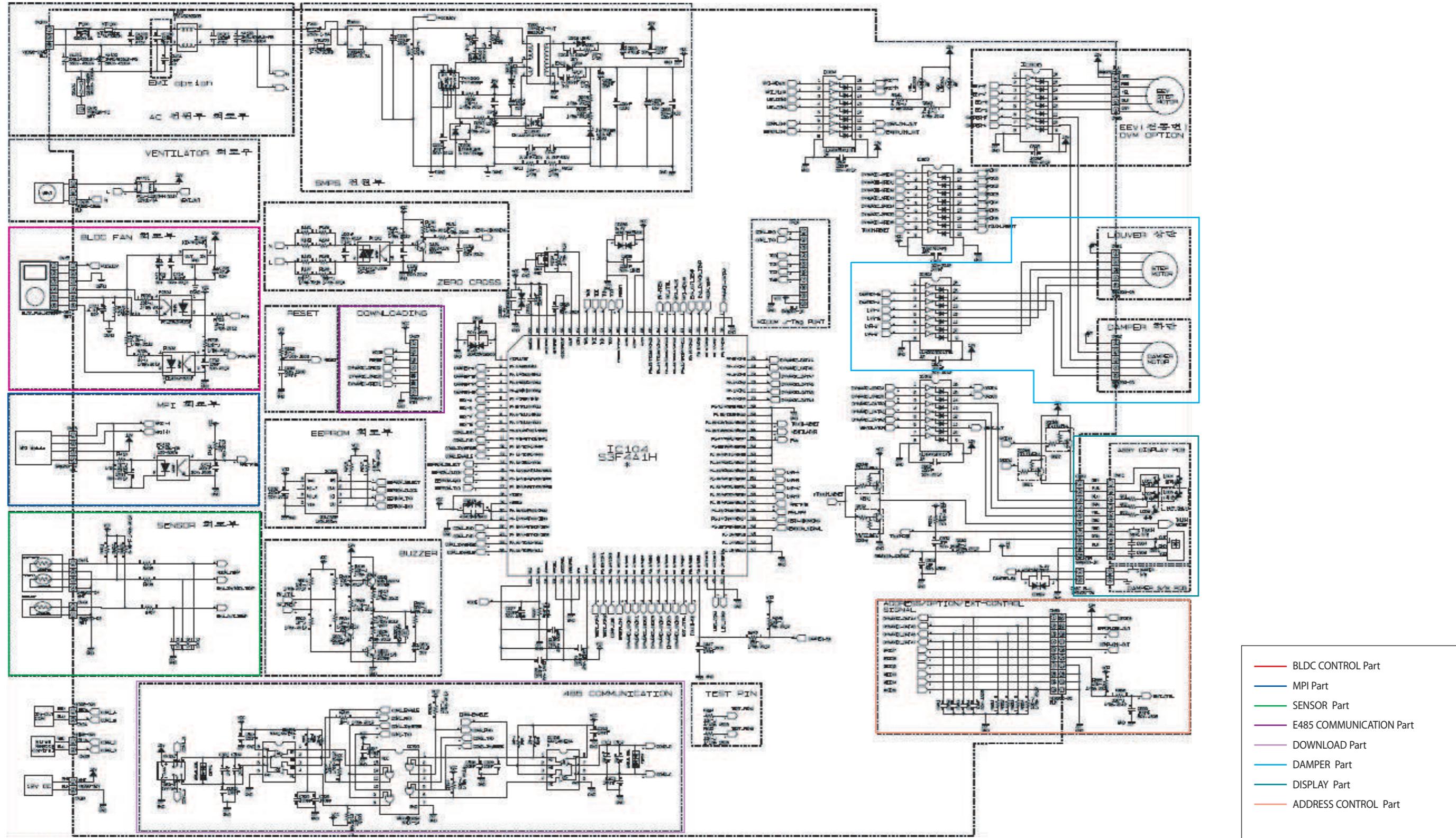


This Document can not be used without Samsung's authorization.

8. Schematic Diagram

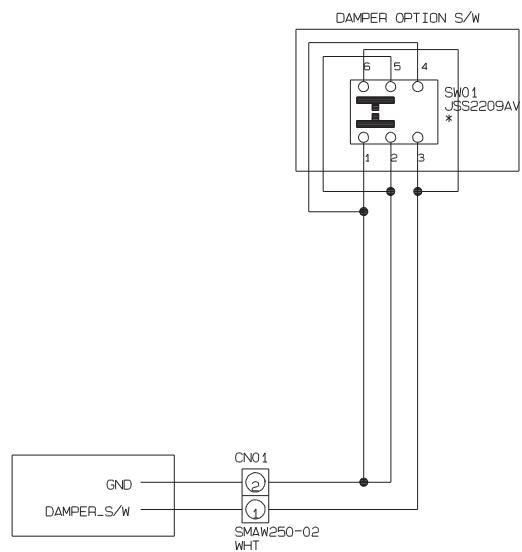
8-1 Indoor Unit

8-1-1 MAIN PCB



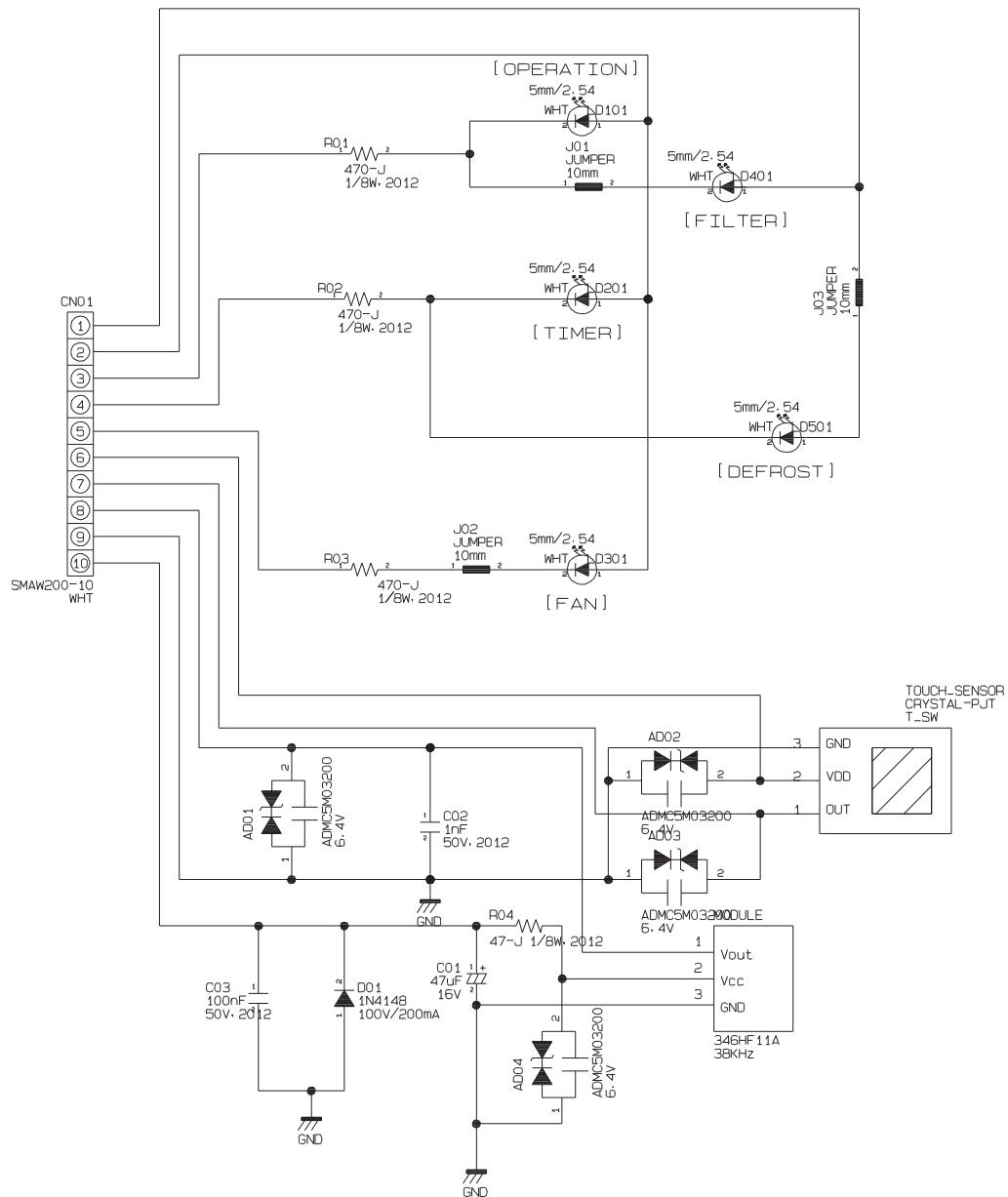
This Document can not be used without Samsung's authorization

8-1-2 Damper



This Document can not be used without Samsung's authorization.

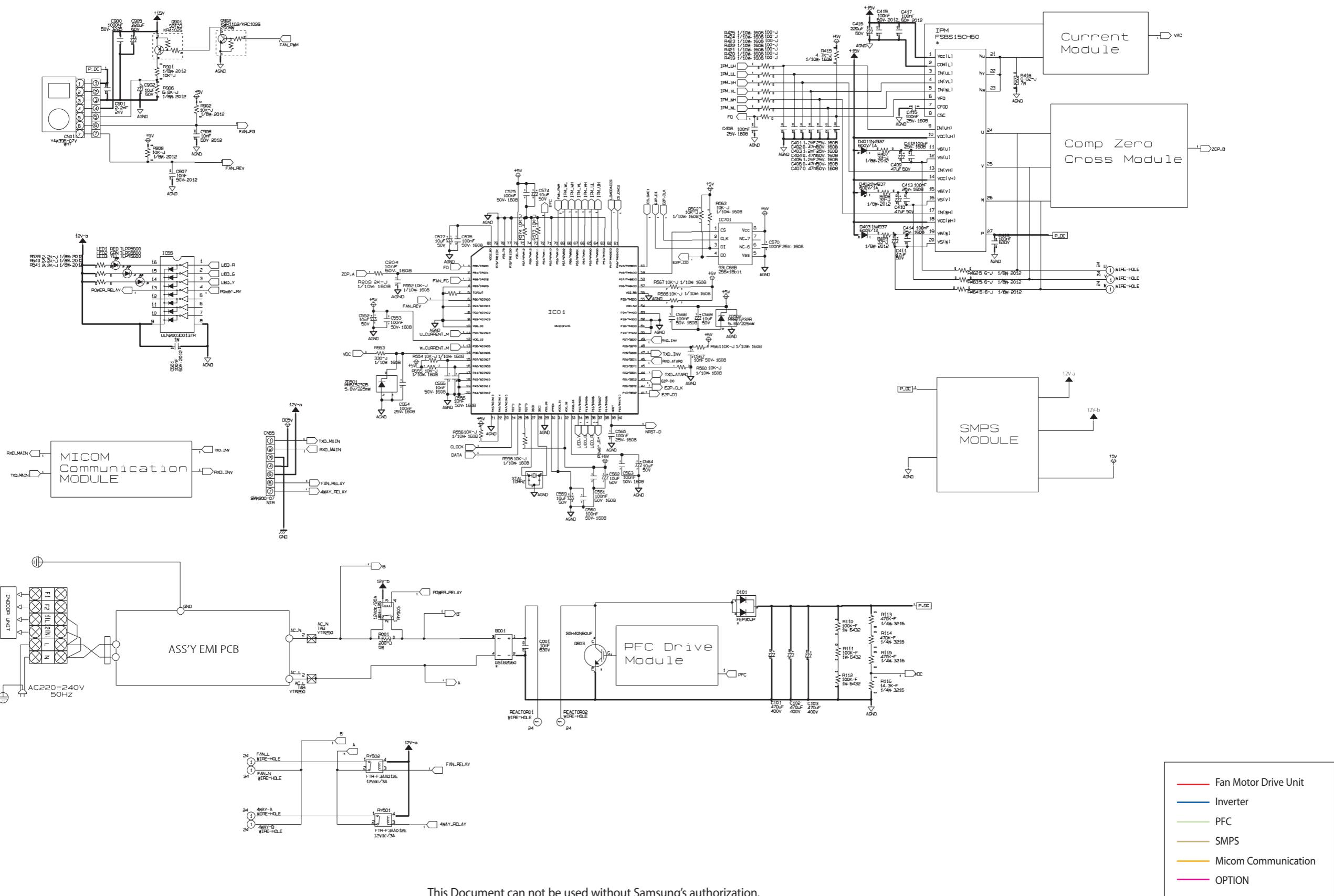
8-1-3 PCB Display



This Document can not be used without Samsung's authorization.

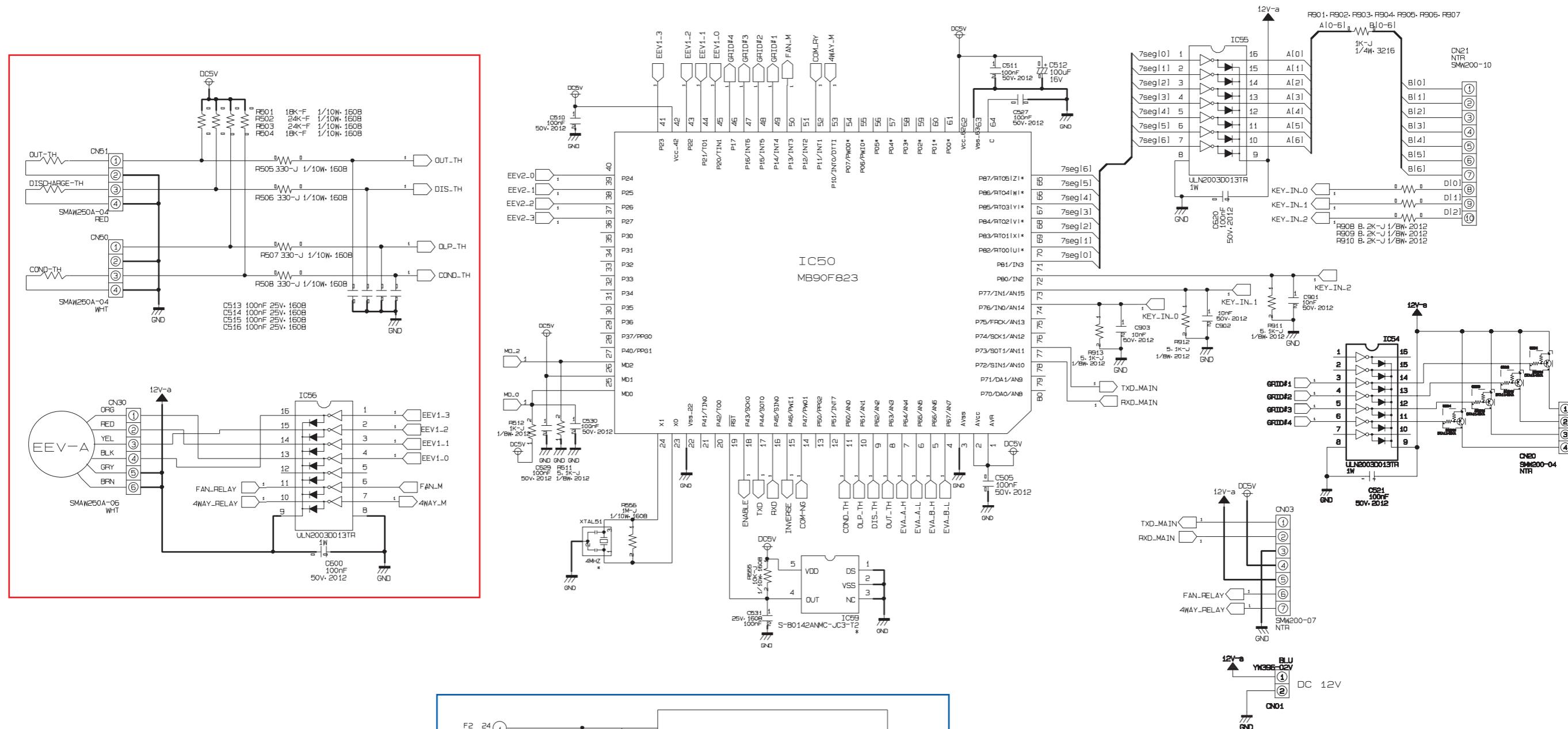
8-2 Outdoor Unit

■ INVERTER



This Document can not be used without Samsung's authorization.

■ INVERTER (cont.)



— Temp. Sensor Part & EEV part
— 485 Communication Circuit Part

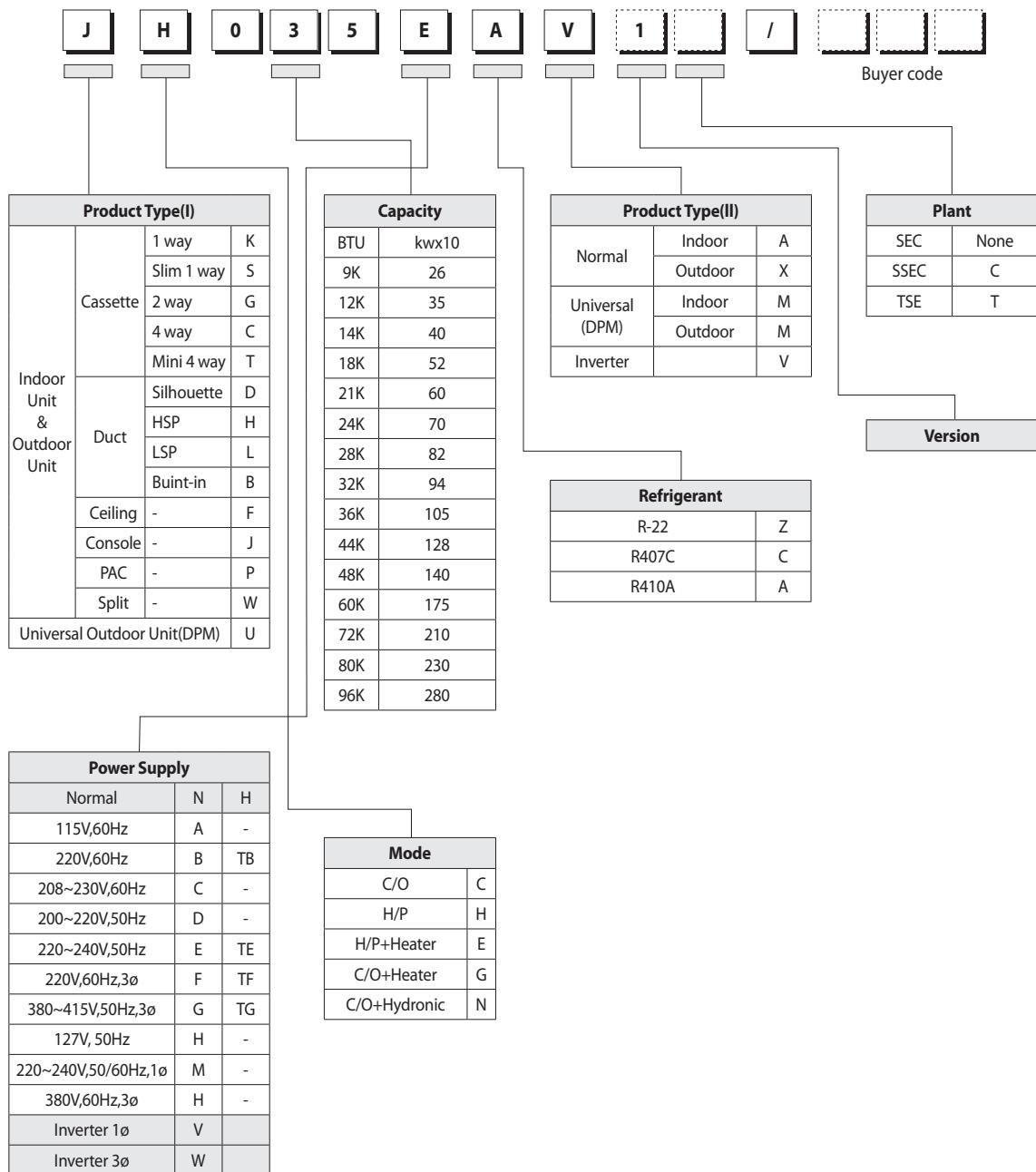
This Document can not be used without Samsung's authorization.

9. Reference Sheet

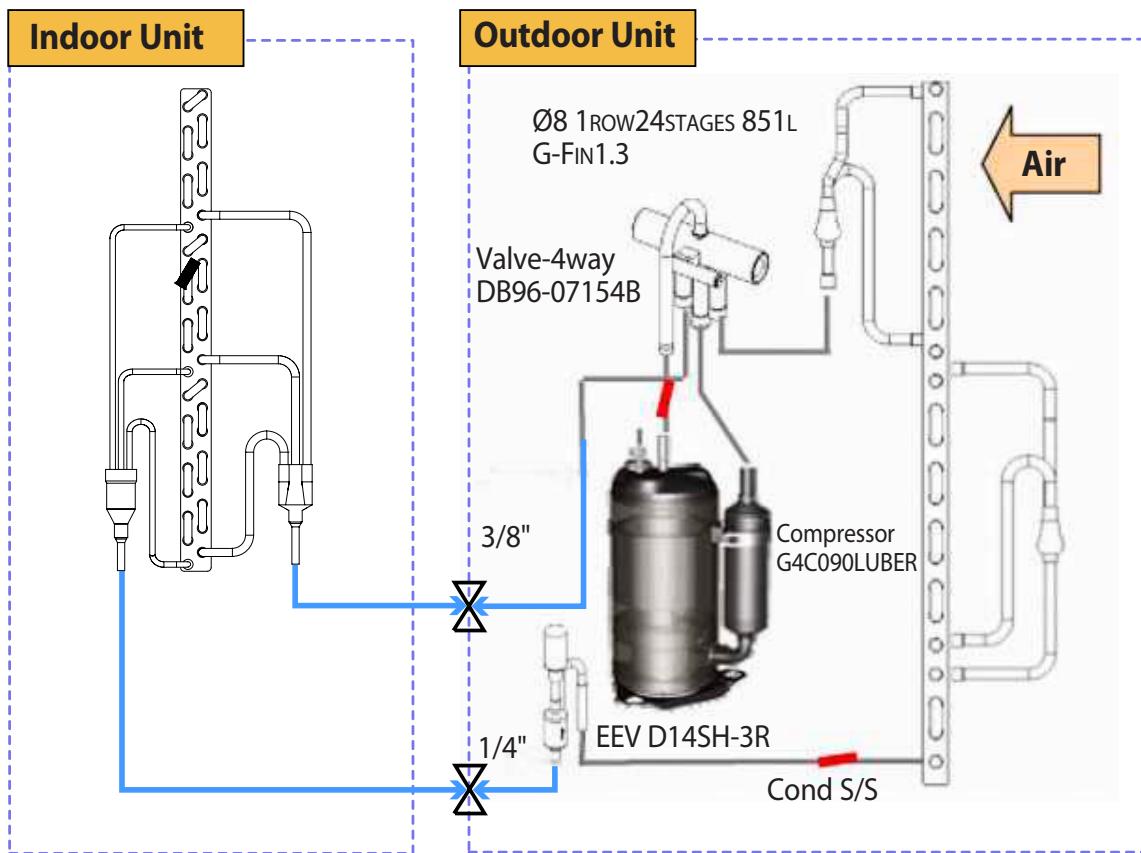
9-1 Index for Model Name

※ Project model code for New Built-in Product.

Model Code



9-2 Refrigerating Cycle Diagram



● Condenser

Gas refrigerant discharged from the compressor is cooled down in the condenser of the outdoor unit by means of thermal emission and turned into a liquid refrigerant before being sent to the evaporator.

● Compressor

It compresses the low-temperature, low-pressure refrigerant to let it flow to the Cycle.

● Evaporator

As the liquid refrigerant that has been absorbed via capillary tubes evaporates (from liquid to gas), it absorbs heat from the surroundings, thereby cooling the indoor area.

● Service Valve

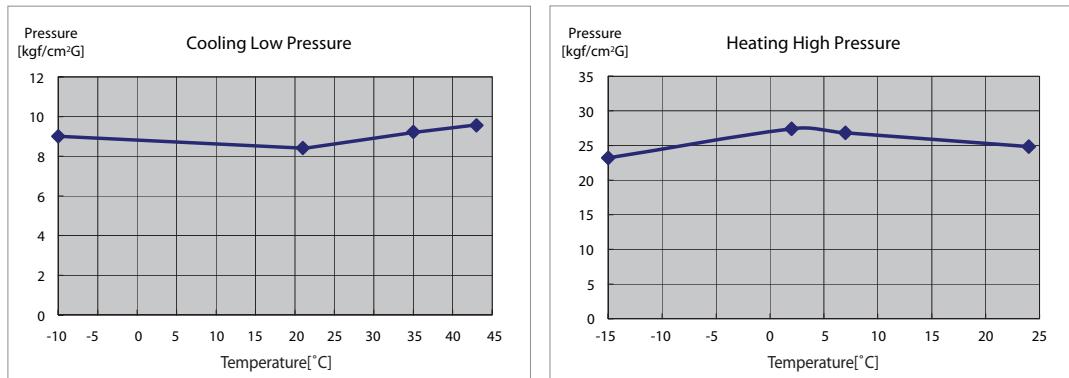
Using a hex wrench, turn the needle valve counterclockwise to open the valve. It is used for vacuuming, gas drain, refrigerant injection, refrigerant purge, and indoor-outdoor units connection.

● Accumulator

It prevents liquid refrigerant from flowing into the compressor.
(If liquid refrigerant enters the compressor, it becomes overloaded)

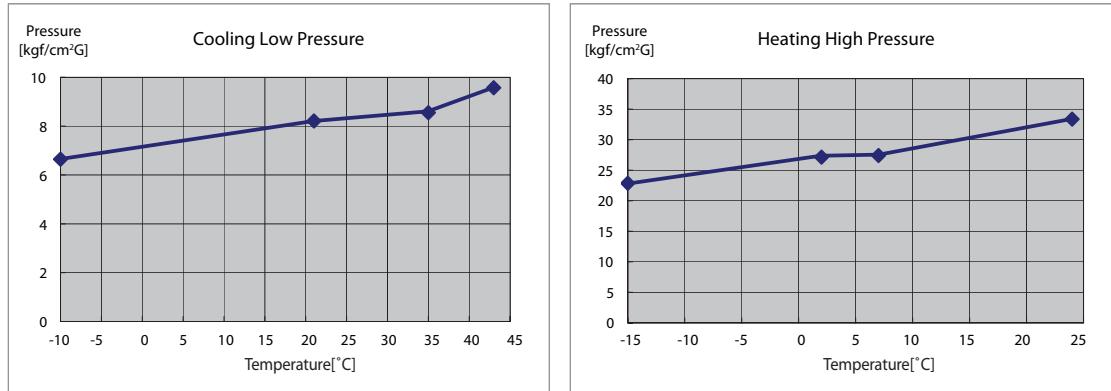
9-3 Pressure Graph

■ JH026EAV1



Cooling				
Temperature	-10	21	35	43
Low pressure	8.98	8.27	9.27	9.72
Heating				
Temperature	-15	2	7	24
High pressure	23.8	27.0	25.0	30.3

■ JH035EAV1



Cooling				
Temperature	-10	21	35	43
Low pressure	8.65	8.19	8.83	9.70
Heating				
Temperature	-15	2	7	24
High pressure	23.1	27.1	27.1	33.0

**GSPN(Global Service Partner Network)**

Area	Web Site
North America	http://service.samsungportal.com
Latin America	http://latin.samsungportal.com
CIS	http://cis.samsungportal.com
Europe	http://europe.samsungportal.com
China	http://china.samsungportal.com
Asia	http://asia.samsungportal.com
Mideast & Africa	http://mea.samsungportal.com

This Service Manual is a property of Samsung Electronics Co., Ltd.
Any unauthorized use of Manual can be punished under applicable
International and/or domestic law.

© Samsung Electronics Co., Ltd. Feb. 2008.
Printed in China.
Code No. DB98-29331A(1)